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GenCore version 5.1.6

OM protein - protein search, using SW model

Run on:

May 4, 2005, 18:14:26 ; Search time 134 Seconds

(without alignments)

116.836 Million cell updates/sec

Title: US-10-723-368-5

Perfect score: 254

Sequence:

1 TOAQILRVGCVLGLTCQVNL..... MGPAQRQDSAPVDPSSPPHSY 47

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1426032 seqs, 333106140 residues

Total number of hits satisfying chosen parameters: 1426032

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications AA.\*

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3: /cgn2\_6/ptodata/1/pubpaas/US06\_PUBCOMB.pep:\*

4: /cgn2\_6/ptodata/1/pubpaas/US07\_NEW\_PUBCOMB.pep:\*

5: /cgn2\_6/ptodata/1/pubpaas/PCUTS\_PUBCOMB.pep:\*

6: /cgn2\_6/ptodata/1/pubpaas/US08\_NEW\_PUB\_PEP.pep:\*

7: /cgn2\_6/ptodata/1/pubpaas/US08\_PUBCOMB.pep:\*

8: /cgn2\_6/ptodata/1/pubpaas/US09A\_PUBCOMB.pep:\*

9: /cgn2\_6/ptodata/1/pubpaas/US09B\_PUBCOMB.pep:\*

10: /cgn2\_6/ptodata/1/pubpaas/US09C\_PUBCOMB.pep:\*

11: /cgn2\_6/ptodata/1/pubpaas/US09 NEW\_PUB\_PEP:\*

12: /cgn2\_6/ptodata/1/pubpaas/US10A\_PUBCOMB.pep:\*

13: /cgn2\_6/ptodata/1/pubpaas/US10B\_PUBCOMB.pep:\*

14: /cgn2\_6/ptodata/1/pubpaas/US10C\_PUBCOMB.pep:\*

15: /cgn2\_6/ptodata/1/pubpaas/US10\_PUBCOMB.pep:\*

16: /cgn2\_6/ptodata/1/pubpaas/US10\_PUBCOMB.pep:\*

17: /cgn2\_6/ptodata/1/pubpaas/US11\_NEW\_PUB\_PEP:\*

18: /cgn2\_6/ptodata/1/pubpaas/US11\_NEW\_PUB\_PEP:\*

19: /cgn2\_6/ptodata/1/pubpaas/US60\_NEW\_PUB\_PEP:\*

20: /cgn2\_6/ptodata/1/pubpaas/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

| Result No. | Score | Query | Match Length | DB ID | Description         |
|------------|-------|-------|--------------|-------|---------------------|
| 1          | 254   | 100.0 | 47           | 17    | US-10-850-055-14    |
|            |       |       |              |       | Sequence 14, Appl   |
|            |       |       |              |       | Sequence 14, Appl   |
|            |       |       |              |       | Sequence 2, Appl    |
|            |       |       |              |       | Sequence 2, Appl    |
|            |       |       |              |       | Sequence 19, Appl   |
|            |       |       |              |       | Sequence 19, Appl   |
|            |       |       |              |       | Sequence 43, Appl   |
|            |       |       |              |       | Sequence 43, Appl   |
|            |       |       |              |       | Sequence 2, Appl    |
|            |       |       |              |       | Sequence 7, Appl    |
|            |       |       |              |       | Sequence 6, Appl    |
|            |       |       |              |       | Sequence 12, Appl   |
|            |       |       |              |       | Sequence 12, Appl   |
|            |       |       |              |       | Sequence 7, Appl    |
|            |       |       |              |       | Sequence 148, Appl  |
|            |       |       |              |       | Sequence 15, Appl   |
|            |       |       |              |       | Sequence 16, Appl   |
|            |       |       |              |       | Sequence 17, Appl   |
|            |       |       |              |       | Sequence 1622, Appl |

RESULT 1

US-10-850-055-14

Sequence 14, Application US/10850055

Publication No. US20050008742A1

GENERAL INFORMATION:

APPLICANT: Bernilsson, Goran

APPLICANT: Eliasson, Rikard

APPLICANT: Frien, Jonas

APPLICANT: Hægerrstrand, Anders

APPLICANT: Heidrich, Jessica

APPLICANT: Hellstrom, Kristina

APPLICANT: Hægglund, Johan

APPLICANT: Jansson, Katarina

APPLICANT: Kortman, Jakko

APPLICANT: Lindquist, Per

APPLICANT: Lundh, Hanna

APPLICANT: McGuire, Jacqueline

APPLICANT: Mercer, Alex

APPLICANT: Nyberg, Karl

APPLICANT: Osoinska, Anna

APPLICANT: Patrone, Cesare

APPLICANT: Ronholm, Harriet

APPLICANT: Wikstrom, Lillian

APPLICANT: Zachrisson, Olof

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR INCREASING NEUROGENESIS

FILE REFERENCE: 21082-517 CIP

CURRENT APPLICATION NUMBER: US/10/850,055

CURRENT FILING DATE: 2004-05-19

PRIOR APPLICATION NUMBER: US 10/718,071

PRIOR FILING DATE: 2003-11-20

PRIOR APPLICATION NUMBER: US 60/427,912

PRIOR FILING DATE: 2002-11-20

NUMBER OF SEQ ID NOS: 66

SOFTWARE: Patentin version 3.2

SEQ ID NO: 14

LENGTH: 47

Sequence 198108, Sequence 74, Appl

Sequence 14, Appl

Sequence 18935, Sequence 134602, Sequence 25, Appl

Sequence 8, Appl

Sequence 8, Appl

Sequence 6078, Appl

Sequence 53114, Appl

Sequence 63569, Appl

Sequence 136207, Sequence 356, Appl

Sequence 470, Appl

Sequence 355, Appl

Sequence 301, Appl

Sequence 335, Appl

Sequence 134, Appl

Sequence 32051, A

Sequence 15411, Sequence 108, Appl

Sequence 202043, Sequence 11917, Sequence 117574, Sequence 131317, Sequence 1493, Appl

Sequence 143, Appl

Sequence 6, Appl

Sequence 4861, Appl

Sequence 41, Appl

Sequence 8699, Appl

RESULT 2  
 US-09-813-345-14  
 Sequence 14, Application US/09813345  
 Patent No. US20020068814A1  
 GENERAL INFORMATION:  
 APPLICANT: Smith, Derek D.  
 Saha, Shankar  
 TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR  
 NUMBER OF SEQUNCEs: 23  
 CORRESPONDENCE ADDRESS:  
 ADDRESSE: Mueting, Rasch & Gebhardt, P.A.  
 STREET: 119 No. 100 US 20020068814A1th Fourth Street  
 CITY: Minneapolis  
 STATE: MN  
 COUNTRY: USA  
 ZIP: 55401  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/813,345  
 FILING DATE: 20-Mar-2001  
 CLASSIFICATION: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McCormack, Myra H  
 REGISTRATION NUMBER: 36,602  
 REFERENCE/DOCKET NUMBER: 180.00020101  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 612/305-1228  
 TELEFAX: 612/305-1228  
 INFORMATION FOR SEQ ID NO: 14:  
 SEQUNCE CHARACTERISTICS:  
 LENGTH: 52 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 SEQUNCE DESCRIPTION: SEQ ID NO: 14:  
 ; US-09-813-345-14  
 Query Match 28.5%; Score 72.5; DB 9; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.067; Mismatches 15; Conservatve 6; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;  
 ; US-09-813-345-14  
 RESULT 3  
 US-10-850-055-14  
 Query 9 GCVLGLGQCVQVNLSHRLWLMGPGAGRDSAPVDPSSPHSY 47  
 Db 15 GCRFGICTVQKLAHQIYQFT-DDKDKNVAPRSKISPGY 52  
 ; US-10-850-055-14  
 Sequence 2, Application US/10197954  
 Publication No. US20030119021A1  
 GENERAL INFORMATION:  
 APPLICANT: K"ster, Hubert  
 APPLICANT: Siddiqi, Suhaib  
 ; US-10-850-055-14  
 Query 1 TQDQLRVCVLTGQCVQVNLSHRLWLMGPGAGRDSAPVDPSSPHSY 47  
 Db 1 TQDQLRVCVLTGQCVQVNLSHRLWLMGPGAGRDSAPVDPSSPHSY 47  
 ; US-10-850-055-14  
 RESULT 4  
 US-10-197-954-2  
 Sequence 19, Application US/1047635A  
 Publication No. US20040176567A1  
 GENERAL INFORMATION:  
 APPLICANT: Isis Innovation Ltd  
 TITLE OF INVENTION: Peptides  
 FILE REFERENCE: 480821.00004  
 CURRENT APPLICATION NUMBER: US/10/474,635A  
 CURRENT FILING DATE: 2003-10-14  
 PRIOR APPLICATION NUMBER: GB 0109438.2  
 PRIOR FILING DATE: 2001-04-17  
 NUMBER OF SEQ ID NOS: 22  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 19  
 LENGTH: 52  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 ; US-10-197-954-2  
 Query Match 28.5%; Score 72.5; DB 14; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.067; Mismatches 15; Conservatve 6; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;  
 ; US-10-197-954-2  
 Query Match 28.5%; Score 72.5; DB 16; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.067; Mismatches 15; Conservatve 6; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;  
 ; US-10-197-954-2  
 RESULT 5  
 US-10-718-071-43  
 Sequence 43, Application US/10718071  
 Publication No. US2005009847A1  
 GENERAL INFORMATION:  
 APPLICANT: Bertilsson, Goran  
 APPLICANT: Erlansson, Rickard  
 APPLICANT: Frien, Jonas  
 APPLICANT: Haegerstrand, Anders  
 APPLICANT: Heidrich, Jessica  
 APPLICANT: Hellstrom, Kristina  
 APPLICANT: Haggblad, John  
 APPLICANT: Jamison, Katarina  
 APPLICANT: Kortesmaa, Jarkko

Publication No. US20030224989A1  
 GENERAL INFORMATION:  
 APPLICANT: Pahel, Gregory L.  
 APPLICANT: Quinn, Kerry  
 TITLE OF INVENTION: Compositions and Methods for Treatment of Osteoarthritis  
 CURRENT APPLICATION NUMBER: US/10/364,889  
 CURRENT FILING DATE: 2003-02-12  
 PRIOR APPLICATION NUMBER: 60/356,376  
 PRIOR FILING DATE: 2002-02-12  
 NUMBER OF SEQ ID NOS: 8  
 SOFTWARE: Curaseqlist version 0.1  
 SEQ ID NO 6  
 LENGTH: 185  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-364-889-6

Query Match 28.5%; Score 72.5; DB 15; Length 185;  
 Best Local Similarity 38.5%; Pred. No. 0.27;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

Qy 9 GCVLGLTCQVQVNISHRLWQLMGPGRQDSAPVDPSSPHSY 47  
 Db 109 GERRGTCCTVQKLAHQIYQFT-DKDKDNVAPRSKISPGY 146

RESULT 6  
 US-10-760-085-2  
 Sequence 2, Application US/10760085  
 Publication No. US20050042771A1  
 GENERAL INFORMATION:  
 APPLICANT: Hubert K"ster  
 APPLICANT: Daniel Paul Little  
 APPLICANT: Suhail Mahmood Siddiqi  
 APPLICANT: Matthew Peter Grealish  
 APPLICANT: Subramanian Marappan  
 APPLICANT: Chester Frederick Haseman III  
 APPLICANT: Ping Yip  
 TITLE OF INVENTION: Capture Compounds, Collections Thereof  
 TITLE OF INVENTION: And Methods For Analyzing The Proteome And Complex  
 FILE REFERENCE: P124743-2205  
 CURRENT APPLICATION NUMBER: US/10/760,085  
 PRIOR APPLICATION NUMBER: 60/441,398  
 PRIOR FILING DATE: 2003-01-16  
 NUMBER OF SEQ ID NOS: 149  
 SOFTWARE: Fast-SEQ for Windows Version 4.0  
 SEQ ID NO 2  
 LENGTH: 52  
 TYPE: PRT  
 ORGANISM: Homo sapien  
 US-10-760-085-2

Query Match 28.5%; Score 72.5; DB 17; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.67;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

Qy 9 GCVLGLTCQVQVNISHRLWQLMGPGRQDSAPVDPSSPHSY 47  
 Db 15 GCRFGTCCTVQKLAHQIYQFT-DKDKDNVAPRSKISPGY 52

RESULT 7  
 US-10-675-406A-7  
 Sequence 7, Application US/10675406A  
 Publication No. US20040121375A1  
 GENERAL INFORMATION:  
 APPLICANT: Bayer Pharmaceuticals Corporation  
 APPLICANT: Eveleigh, Deepa  
 APPLICANT: Taylor, Ian  
 TITLE OF INVENTION: METHODS FOR PREDICTION AND PROGNOSIS OF CANCER, AND MONITORING  
 TITLE OF INVENTION: CANCER THERAPY  
 FILE REFERENCE: 5138  
 CURRENT APPLICATION NUMBER: US/10/675,406A  
 CURRENT FILING DATE: 2003-09-30  
 PRIOR APPLICATION NUMBER: US 60/415,194  
 Sequence 6, Application US/10364889  
 RESULT 7  
 US-10-364-889-6

; PRIORITY FILING DATE: 2002-09-30  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO: 7  
 ; LENGTH: 185  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-675-406A-7

Query Match 28.5%; Score 72.5; DB 16; Length 185;  
 Best Local Similarity 38.5%; Pred. No. 0.27; Mismatches 6; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;  
 QY 9 GCVLGTQVQVNLNSRLWQMGPAQRQSDSPVDPSSPHY 47  
 Db. 109 GCRFGTCTVQKLAHQIYQFT-DKDKDNVAPRKISPGY 146

RESULT 10  
 US-10-755-889-148  
 ; Sequence 148, Application US/10755889  
 ; Publication No. US20040171823A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bristol-Myers Squibb Company  
 ; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH THE NP-KB  
 ; FILE REFERENCE: D0384 NP  
 ; CURRENT APPLICATION NUMBER: US/10/755, 889  
 ; CURRENT FILING DATE: 2004-01-13  
 ; PRIORITY APPLICATION NUMBER: U.S. 60/440, 068  
 ; PRIORITY FILING DATE: 2003-01-14  
 ; PRIORITY APPLICATION NUMBER: U.S. 60/469, 757  
 ; PRIORITY FILING DATE: 2003-05-12  
 ; NUMBER OF SEQ ID NOS: 823  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO: 14  
 ; LENGTH: 185  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-755-889-148

\* Query Match 28.5%; Score 72.5; DB 16; Length 185;  
 Best Local Similarity 38.5%; Pred. No. 0.27; Mismatches 6; Indels 1; Gaps 1;  
 Matches 15; Conservative 17; Indels 1; Gaps 1;  
 QY 9 GCVLGTQVQVNLNSRLWQMGPAQRQSDSPVDPSSPHY 47  
 Db. 109 GCRFGTCTVQKLAHQIYQFT-DKDKDNVAPRKISPGY 146

RESULT 11  
 US-09-813-345-15  
 ; Sequence 15, Application US/09813345  
 ; Publication No. US2005009847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Erlansson, Rikard  
 ; APPLICANT: Friisen, Jonas  
 ; APPLICANT: Haagerrstrand, Anders  
 ; APPLICANT: Bertilsson, Goran  
 ; APPLICANT: Hellstrom, Kristina  
 ; APPLICANT: Hellstrom, Kristina  
 ; APPLICANT: Haegblad, Johan  
 ; APPLICANT: Jamson, Katarina  
 ; APPLICANT: Korresmaa, Jarkko  
 ; APPLICANT: Lindquist, Par  
 ; APPLICANT: Lundh, Hanna  
 ; APPLICANT: McGuire, Jacqueline  
 ; APPLICANT: Mercer, Alex  
 ; APPLICANT: Nyberg, Karl  
 ; APPLICANT: Ossinak, Amina  
 ; APPLICANT: Patrone, Cesare  
 ; APPLICANT: Ronnholm, Harriet  
 ; APPLICANT: Wirkstrom, Lilian  
 ; APPLICANT: Zachrisson, Olof

\* Query Match 27.0%; Score 68.5; DB 17; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.22; Mismatches 5; Indels 1; Gaps 1;  
 Matches 15; Conservative 5; Mismatches 18; Indels 1; Gaps 1;  
 QY 9 GCVLGTQVQVNLNSRLWQMGPAQRQSDSPVDPSSPHY 47  
 Db. 9 GCVLGTQVQVNLNSRLWQMGPAQRQSDSPVDPSSPHY 47

; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/813, 345  
 ; FILING DATE: 20-Mar-2001  
 ; CLASSIFICATION: <Unknown>  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: McCormack, Myra H  
 ; REGISTRATION NUMBER: 36, 602  
 ; REFERENCE/DOCKET NUMBER: 180.00020101  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 612/305-1228  
 ; TELEFAX: 612/305-1228  
 ; INFORMATION FOR SEQ ID NO: 15:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 50 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 15:  
 ; US-09-813-345-15

Query Match 27.4%; Score 69.5; DB 9; Length 50;  
 Best Local Similarity 35.9%; Pred. No. 0.15; Mismatches 7; Indels 1; Gaps 1;  
 Matches 14; Conservative 7; Mismatches 17; Indels 1; Gaps 1;  
 QY 9 GCVLGTQVQVNLNSRLWQMGPAQRQSDSPVDPSSPHY 47  
 Db. 13 GCRFGTCTVQKLAHQIYQFT-DKDKDNVAPRKISPGY 50

RESULT 12  
 US-10-718-071-16  
 ; Sequence 16, Application US/10718071  
 ; Publication No. US2005009847A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bertilsson, Bertil  
 ; APPLICANT: Friisen, Jonas  
 ; APPLICANT: Haagerrstrand, Anders  
 ; APPLICANT: Hellstrom, Kristina  
 ; APPLICANT: Hellstrom, Kristina  
 ; APPLICANT: Haegblad, Johan  
 ; APPLICANT: Jamson, Katarina  
 ; APPLICANT: Korresmaa, Jarkko  
 ; APPLICANT: Lindquist, Par  
 ; APPLICANT: Lundh, Hanna  
 ; APPLICANT: McGuire, Jacqueline  
 ; APPLICANT: Mercer, Alex  
 ; APPLICANT: Nyberg, Karl  
 ; APPLICANT: Ossinak, Amina  
 ; APPLICANT: Patrone, Cesare  
 ; APPLICANT: Ronnholm, Harriet  
 ; APPLICANT: Wirkstrom, Lilian  
 ; APPLICANT: Zachrisson, Olof

\* Query Match 27.0%; Score 68.5; DB 17; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.22; Mismatches 5; Indels 1; Gaps 1;  
 Matches 15; Conservative 5; Mismatches 18; Indels 1; Gaps 1;  
 QY 9 GCVLGTQVQVNLNSRLWQMGPAQRQSDSPVDPSSPHY 47  
 Db. 9 GCVLGTQVQVNLNSRLWQMGPAQRQSDSPVDPSSPHY 47

; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, version #1.30

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RESULT 13
US-10-264-237-1622
; Sequence 1622, Application US/10264237
; Publication No. US2004000991A1
; GENERAL INFORMATION:
; APPLICANT: Birge et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PALLIPI
; CURRENT APPLICATION NUMBER: US10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2871
; SOFTWARE: Patentin Ver. 3.1
; SEQ ID NO 1622
; LENGTH: 103
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (62)
; OTHER INFORMATION: xaa equals any of the twenty naturally occurring L-amino acids
; NAME/KEY: MISC_FEATURE
; LOCATION: (71)
; OTHER INFORMATION: xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (102)
; OTHER INFORMATION: xaa equals any of the twenty naturally occurring L-amino acids
; US-10-264-237-1622

Query Match 25.2%; Score 64; DB 15; Length 103;
Best Local Similarity 40.0%; Pred. No. 1.8;
-Matches 18; Conservative 5; Mismatches 14; Indels 8; Gaps 3;
Db 2 QAGLRLRGVCGVLGTCQWQNLSHRLWQLMGPAGRDQSDASAPVDPSSPHS 46
Db 8 QAGQLDSGG-QQTSFLDPDHNW-ILGPPS-----LDRSPHS 44

RESULT 14
US-10-437-963-198108
; Sequence 198108, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 198108
; LENGTH: 216
; TYPE: PRT

Query Match 25.0%; Score 63.5; DB 16; Length 216;
Best Local Similarity 31.0%; Pred. No. 4.7;
-Matches 13; Conservative 13; Mismatches 11; Indels 5; Gaps 1;
; OTHER INFORMATION: Clone ID: PAT_MRT4530_93800C.1.pep
; US-10-437-963-198108

; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: C1

RESULT 15
US-10-360-101-74
; Sequence 74, Application US/10360101
; Publication No. US20040009550A1
; GENERAL INFORMATION:
; APPLICANT: Moll, Gert N.
; TITLE OF INVENTION: Export and modification of (poly)peptide in the lantibiotic way
; FILE REFERENCE: 2183-3673
; CURRENT APPLICATION NUMBER: US10/360,101
; CURRENT FILING DATE: 2003-02-07
; PRIOR APPLICATION NUMBER: EP 02077060.8
; PRIOR FILING DATE: 2002-05-24
; NUMBER OF SEQ ID NOS: 309
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 74
; LENGTH: 52
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: A13,S16-sequence of Adrenomedulin Hypotensive peptide
; US-10-360-101-74

Query Match 24.6%; Score 62.5; DB 15; Length 52;
Best Local Similarity 35.9%; Pred. No. 1.4;
-Matches 14; Conservative 6; Mismatches 18; Indels 1; Gaps 1;
Db 9 GCGVLGRGQVQWQNLSHRLWQLMGPAGRDQSDASAPVDPSSPHS 47
Db 15 GSRRGFTVQQLAHQIYQFT-DKDKDNVAPRSKISPOGY 52

Search completed: May 4, 2005, 18:27:15
Job time : 135 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using \_SW model  
Run on: May 4, 2005, 17:56:39 ; Search time 162 Seconds  
(Without alignments)  
112.208 Million cell updates/sec

Title: US-10-723-368-5  
Perfect score: 254

Sequence: 1 TOAQQLRIVGCVLGLCQVNL..... MGPAGQRODSAPVDPSSPPHSY 47

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : A\_Geneseq\_16Dec04:\*

1: geneseq1908:\*

2: geneseq19908:\*

3: geneseq20008:\*

4: geneseq20024:\*

5: geneseq20028:\*

6: geneseq20038:\*

7: geneseq20048:\*

8: geneseq20048:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match Length | DB ID | Description |
|------------|-------|--------------------|-------|-------------|
| 1          | 254   | 100.0              | 47    | 8 AD061523  |
| 2          | 254   | 100.0              | 148   | 8 AD061520  |
| 3          | 254   | 100.0              | 4     | AB91765     |
| 4          | 28.5  | 28.5               | 52    | 4 AB91759   |
| 5          | 28.5  | 28.5               | 52    | 4 AAB75110  |
| 6          | 28.5  | 28.5               | 52    | 4 AAB9818   |
| 7          | 28.5  | 28.5               | 52    | 6 ABP5104   |
| 8          | 28.5  | 28.5               | 52    | 7 ADC2152   |
| 9          | 28.5  | 28.5               | 52    | 7 ADG91993  |
| 10         | 28.5  | 28.5               | 52    | 8 ADM94034  |
| 11         | 28.5  | 28.5               | 52    | 8 ADN03278  |
| 12         | 28.5  | 28.5               | 52    | 8 ADM98309  |
| 13         | 28.5  | 28.5               | 52    | 8 ADP18429  |
| 14         | 28.5  | 28.5               | 52    | 8 ADP18402  |
| 15         | 28.5  | 28.5               | 52    | 8 ADP18413  |
| 16         | 28.5  | 28.5               | 53    | 4 AAB7511   |
| 17         | 28.5  | 28.5               | 53    | 4 AAB75112  |
| 18         | 28.5  | 28.5               | 53    | 6 ABP18665  |
| 19         | 28.5  | 28.5               | 62    | 4 AAB75113  |
| 20         | 28.5  | 28.5               | 91    | 8 ADP5556   |
| 21         | 28.5  | 28.5               | 120   | 4 AAB75123  |
| 22         | 28.5  | 28.5               | 120   | 4 AAB75122  |
| 23         | 28.5  | 28.5               | 120   | 6 ABJ18669  |
| 24         | 28.5  | 28.5               | 120   | 6 ABJ18670  |
| 25         | 28.5  | 28.5               | 120   | 6 ABJ18670  |
| 147        | 4     | 4                  | 147   | 8 AAB75124  |

#### ALIGNMENTS

|    |      |      |     |            |                      |
|----|------|------|-----|------------|----------------------|
| 26 | 72.5 | 28.5 | 147 | 6 ABJ18671 | Abi18671 Universal   |
| 27 | 72.5 | 28.5 | 170 | 4 AAB75114 | Aab75114 Thioredoxin |
| 28 | 72.5 | 28.5 | 185 | 4 AAB60344 | Aab60344 Human adr   |
| 29 | 72.5 | 28.5 | 185 | 4 AAB19697 | Aab19697 Human adr   |
| 30 | 72.5 | 28.5 | 185 | 6 ABP72347 | Abp72347 Adrenomed   |
| 31 | 72.5 | 28.5 | 185 | 7 ADP27595 | Adp27595 Human adr   |
| 32 | 72.5 | 28.5 | 185 | 8 ADF55557 | Adf55557 Human adr   |
| 33 | 72.5 | 28.5 | 185 | 8 ADN10849 | Adn10849 Human adr   |
| 34 | 72.5 | 28.5 | 185 | 8 ADM98308 | Adm98308 Human pre   |
| 35 | 72.5 | 28.5 | 185 | 8 ADP19855 | Adp19855 Human pre   |
| 36 | 72.5 | 28.5 | 185 | 8 ADP12587 | Adp12587 Protein e   |
| 37 | 72.5 | 28.5 | 185 | 8 ADP16937 | Adp16937 Human pro   |
| 38 | 72.5 | 28.5 | 185 | 8 ADP14147 | Adp14147 Human NP-   |
| 39 | 72.5 | 28.5 | 185 | 8 ADR87608 | Adr87608 Human Adr   |
| 40 | 72.5 | 28.5 | 185 | 8 ADS19162 | Ad19162 Human adr    |
| 41 | 72.5 | 28.5 | 186 | 7 ADD18582 | Ad18582 Human dis    |
| 42 | 72.5 | 28.5 | 206 | 6 ABJ18668 | Abi18668 Universal   |
| 43 | 71.5 | 28.1 | 184 | 5 ABB57209 | Abb57209 Mouse isc   |
| 44 | 71.5 | 28.1 | 184 | 8 ADO6040  | Ado6040 CRH signa    |
| 45 | 70.5 | 27.8 | 188 | 4 AAB60345 | Ab60345 Porcine a    |

The invention relates to a novel composition comprising an intermedin peptide, useful for treating hypertension, as cardioprotective agent, as a diet aid, for the release of prolactin, or for growth hormone release from the pituitary. The invention has new composition comprising 148 amino acids (AD061520). A composition of the invention has hypotensive activity, and may have a use in gene therapy. The composition comprising the intermedin peptide is useful for identifying homologous or related genes, for production of the encoded peptide, in producing compositions that modulate the expression or function of its encoded protein, for gene therapy, mapping functional regions of the protein, or in studying associated physiological pathway. The intermedin peptide is useful for treating hypertension, as a cardioprotective agent, as a diet aid, for the release of prolactin, in growth hormone release from the pituitary, or for ovarian follicle survival and growth. They are also

CC useful in the reduction of oedema. The present sequence represents the  
 CC human intermedin mature protein.  
 XX Sequence 47 AA;

RESULT 2  
 AD061520 100.0%; Score 254; DB 8; Length 47;  
 ID AD061520 standard; protein; 148 AA.  
 XX  
 AC ADO61520;  
 XX  
 DT 26-AUG-2004 (first entry)  
 XX  
 DE Human intermedin SEQ ID NO:2.  
 KW human; intermedin; hypotensive; gene therapy; hypertension;  
 KW cardioprotective; diet; prolactin release; growth hormone release;  
 KW ovarian follicle survival; oedema.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004048547-A2.  
 XX  
 PD 23-NOV-2000.  
 XX  
 PR 17-MAY-2000; 2000WO-US013576.  
 XX  
 PR 17-MAY-1999; 99US-0134406P.  
 PR 10-SEP-1999; 99US-0133406P.  
 PR 15-OCT-1999; 99US-0139783P.  
 XX  
 PA (CONJ-) CONJUCHEM INC.  
 XX  
 PI Bridon DP, Ezrin AM, Milner PG, Holmes DL, Thibaudeau K;  
 XX  
 PR WPI; 2001-112059/12.  
 XX  
 DR 26-NOV-2002; 2002US-0429327P.  
 XX  
 PA (STRD ) UNIV LELAND STANFORD JUNIOR.  
 XX  
 PT Hsu SYT;  
 XX  
 DR N-PSDB; AD061519.  
 XX  
 PT New composition comprises an intermedin peptide, useful for treating  
 PT hypertension, as a cardioprotective agent, as a diet aid, for the release  
 PT of prolactin, or for growth hormone release from the pituitary.  
 XX  
 PS Claim 1; SEQ ID NO 2; 68pp; English.

The invention relates to a novel composition comprising an intermedin peptide, which comprises at least 18 contiguous amino acids in a sequence comprising 148 amino acids (AD061520). A composition of the invention has hypotensive activity and may have a use in gene therapy. The composition comprising the intermedin peptide is useful for identifying homologous or related genes, for production of the encoded peptide, in producing compositions that modulate the expression or function of its encoded protein, for gene therapy, mapping functional regions of the encoded protein, for studying associated physiological pathways. The intermedin peptide is useful for treating hypertension, as a cardioprotective agent, as a diet aid, for the release of prolactin, in growth hormone release from the pituitary, or for ovarian follicle survival and growth. They are also useful in the reduction of oedema. The present sequence represents the human intermedin protein of the invention.

XX Sequence 148 AA;

Query Match 100.0%; Score 254; DB 8; Length 148;  
 Best Local Similarity 100.0%; Pred. No. 3.98-27;  
 Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

5

QY 1 TQAQLRQCVLGLTCQVNLSHRLWQLMGPAQRQDSAPVDPSSPHSY 47

Db 101 TQAQLRQCVLGLTCQVNLSHRLWQLMGPAQRQDSAPVDPSSPHSY 147

RESULT 3  
 AAB91765 ID AAB91765 standard; peptide; 52 AA.  
 XX  
 AC AAB91765;  
 XX  
 DT 22-JUN-2001 (first entry)  
 XX  
 DE Adrenomedullin peptide (AM) SEQ ID NO:941.  
 KW Protection; endogenous therapeutic peptide; Peptidase; conjugation;  
 KW blood component; modification; succinimidyl; maleimido group; amino;  
 KW hydroxyl; thiol; hormone; growth factor; neurotransmitter.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO20069900-A2.  
 XX  
 PD 23-NOV-2000.  
 XX  
 PR 17-MAY-2000; 2000WO-US013576.  
 XX  
 PR 17-MAY-1999; 99US-0134406P.  
 PR 10-SEP-1999; 99US-0133406P.  
 PR 15-OCT-1999; 99US-0139783P.  
 XX  
 PA (CONJ-) CONJUCHEM INC.  
 XX  
 PI Bridon DP, Ezrin AM, Milner PG, Holmes DL, Thibaudeau K;  
 XX  
 DR WPI; 2001-112059/12.

XX  
 PT Modifying and attaching therapeutic peptides to albumin prevents  
 PT peptidase degradation, useful for increasing length of in vivo activity.  
 XX  
 PS Disclosure; Page 501; 733pp; English.

CC The present invention describes a modified therapeutic peptide (I)  
 CC comprising a therapeutically active amino acid region (III) and a  
 CC reactive group (II) (e.g. succinimidyl and maleimido groups) attached to  
 CC a less therapeutically active amino acid region (IV), which covalently  
 CC bonds with amino/hydroxyl/thiol groups on blood components to form a  
 CC peptide stabilised therapeutic peptide composed of 3-50 amino acids.  
 CC (I) are useful for modifying therapeutic peptides e.g. hormones, growth  
 CC factors and neurotransmitters, to protect them from peptidase activity in  
 CC vivo for the treatment of various disorders. Endogenous therapeutic  
 CC peptides are not suitable as drug candidates as they require frequent  
 CC administration due to rapid degradation by peptidases in the body.  
 CC Modifying and attaching therapeutic peptides to albumin prevents or  
 CC reduces the action of peptides to increase length of activity (half  
 CC life) and specificity as bonding to large molecules decreases  
 CC intracellular uptake and interference with physiological processes.  
 CC AAB90829 to AAB9241 represent peptides which can be used in the  
 XX exemplification of the present invention

XX Sequence 52 AA;

Query Match 29.9%; Score 76; DB 4; Length 52;  
 Best Local Similarity 35.9%; Pred. No. 0.0091; Mismatches 19; Indels 0; Gaps 0;

QY 9 GCVGTCQVNLSHRLWQLMGPAQRQDSAPVDPSSPHSY 47

Db 14 GCRGTCVQKLAQIYOPTDKDGVAPRSKISKISKPGY 52

RESULT 4  
 AAB91759

ID AAB91759 Standard; peptide; 52 AA.  
 XX  
 AC AAB91759;  
 XX  
 DT 22-JUN-2001 (first entry)  
 XX  
 DE Adrenomedullin peptide (AM) SEQ ID NO:935.  
 XX  
 KW Protection; endogenous therapeutic peptide; peptidase; conjugation;  
 KW blood component; modification; succinimidyl; maleimido group; amino;  
 KW hydroxyl; thiol; hormone; growth factor; neurotransmitter.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 PN WO200069900-A2.  
 XX  
 PD 23-NOV-2000.  
 XX  
 PF 17-MAY-2000; 2000W0-US013576.  
 XX  
 PR 17-MAY-1999; 99US-0134406P.  
 PR 10-SEP-1999; 99US-0153406P.  
 PR 15-OCT-1999; 99US-0159783P.  
 XX  
 PA (CONJ-) CONJUCHEM INC.  
 XX  
 PT Bridon DP, Ezrin AM, Milner PG, Holmes DL, Thibaudeau K;  
 .XX  
 DR WPI; 2001-112059/12.  
 XX  
 PT Modifying and attaching therapeutic peptides to albumin prevents  
 PT peptide degradation, useful for increasing length of in vivo activity.  
 .XX  
 PS Disclosure; Page 498; 733pp; English.  
 XX  
 CC The present invention describes a modified therapeutic peptide (I)  
 CC comprising a therapeutically active amino acid region (III) and a  
 CC reactive group (II) (e.g. succinimidyl and maleimido groups) attached to  
 a less therapeutically active amino acid region (IV), which covalently  
 CC bonds with amino/hydroxyl/thiol groups on blood components to form a  
 CC peptide stabilized therapeutic peptide composed of 3-50 amino acids.  
 CC (I) are useful for modifying therapeutic peptides (e.g. hormones, growth  
 CC factors and neurotransmitters, to protect them from peptidase activity in  
 CC vivo for the treatment of various disorders. Endogenous therapeutic  
 CC peptides are not suitable as drug candidates as they require frequent  
 CC administration due to rapid degradation by peptidases in the body.  
 CC Modifying and attaching therapeutic peptides to albumin prevents or  
 CC reduces the action of peptidases to increase length of activity (half  
 CC life) and specificity as bonding to large molecules decreases  
 CC intracellular uptake and interference with physiological processes.  
 CC AAB90829 to AAB9241 represent peptides which can be used in the  
 CC exemplification of the present invention  
 XX  
 SO Sequence 52 AA;

Query Match 28.5%; Score 72.5; DB 4; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.028; Mismatches 17; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

QY 9 GCGVGTGQVQNLISRLWQLMGPGAGRQDSDAPVDFSSPHSY 47  
 DB 15 GCRFGTCTVOKLAHQIYOPT-DKDKDNVAPRSKISPGY 52

RESULT 5  
 AAB7510  
 ID AAB7510 Standard; protein; 52 AA.  
 XX  
 AC AAB7510;  
 XX  
 DT 31-JUL-2001 (first entry)  
 XX

RESULT 5  
 AAB7510  
 ID AAB7510 Standard; protein; 52 AA.  
 XX  
 AC AAB7510;  
 XX  
 DT 31-JUL-2001 (first entry)  
 XX

DE Human adrenomedullin (AM) protein.  
 XX  
 KW Adrenomedullin; glycine extended adrenomedullin; AM; AM-gly;  
 KW adrenomedullin precursor; fusion protein; pharmaceutical; diagnostic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200127310-A1.  
 XX  
 PR 19-APR-2001.  
 XX  
 PD 10-OCT-2000; 2000W0-JP007023.  
 XX  
 PR 15-OCT-1999; 99JP-00294147.  
 XX  
 PA (SHIO ) SHIONOGI & CO LTD.  
 XX  
 PI Takimoto A, Mitsuda Y, Nakayama T, Mitsuhashi K;  
 XX  
 DR WPI; 2001-282044/29.  
 XX  
 PR N-FSDB; AAH19806.  
 XX  
 PT Producing adrenomedullin useful for pharmaceutical and diagnostic  
 PT application comprises producing fused adrenomedullin precursor using a  
 PT recombinant host.  
 XX  
 PS Disclosure; Page 45; 75pp; Japanese.  
 XX  
 CC The present invention describes a method (M1) for producing  
 CC adrenomedullin precursor. The method comprises: (a) producing the fused  
 CC protein using a recombinant host cell; (b) restricted digestion of the  
 CC fused protein by a protease followed by collection of sediment; and (c)  
 CC dissolving the sediment and extracting adrenomedullin precursor. The (c)  
 CC method can be used for the production of adrenomedullin precursor for  
 CC pharmaceutical and diagnostic applications. AAB19806 to AAH19866 and  
 CC AAB7510 to AAB75124 represent sequences which are used in the  
 CC exemplification of the present invention  
 XX  
 SO Sequence 52 AA;

Query Match 28.5%; Score 72.5; DB 4; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.028; Mismatches 17; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

QY 9 GCGVGTGQVQNLISRLWQLMGPGAGRQDSDAPVDFSSPHSY 47  
 DB 15 GCRFGTCTVOKLAHQIYOPT-DKDKDNVAPRSKISPGY 52

RESULT 6  
 AAB09818  
 ID AAB09818 Standard; peptide; 52 AA.  
 XX  
 AC AAB09818;  
 XX  
 DT 29-NOV-2001 (first entry)  
 XX  
 DE Human adrenomedullin Peptide #1.  
 XX  
 KW Human; vasoactive peptide; calcitonin gene related peptide; CGRP;  
 KW CGRP-receptor identification; adrenomedullin.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US6268474-B1.  
 XX  
 PD 31-JUL-2001.  
 XX  
 PR 30-APR-1998; 98US-00070504.  
 XX  
 PR 30-APR-1998; 98US-00070504.  
 XX  
 PA (UVCR-) UNIV CREIGHTON.

XX  
PT Smith DD, Saha S, Abel PW;  
XX  
DR WPI; 2001-564216/63.  
XX  
PT  
PT  
PT  
PT  
Vasoactive peptides useful for inhibiting calcitonin gene related peptide receptor activity.

include those for which the peptide is polymorphic amongst different species, which increase the propensity of the peptide to form local interactions of the alpha-helical type, or which reduce the number of hydrophobic residues or increase the net charge of the peptide. When aggregation is reduced or prevented, lower doses of the drug can be used. Side-effects and undesired responses are minimised by retaining high sequence identity to the human peptide.

The invention relates to antagonists of the vasoactive peptide calcitonin gene related peptide (CGRP) and other members of the CGRP superfamily. The invention also relates to amino terminal modifications of peptides to improve their ability to bind to a member of the CGRP-receptor super-family. CGRP antagonists are used for inhibiting CGRP activity which can be used in vitro e.g. in assays to identify and/or isolate CGRP receptors or with intact cells either in vitro or in vivo to

AC AC ADC25152;  
AC AC  
XX DT 18-DEC-2003 (first entry)  
XX DB Human angiogenesis inhibiting peptide #SEQ ID 1.  
XX  
Cur-estatin, gene, therapy, cancer, stomach, colon, pulmonary, ovarian.

RESULT 7  
ABP5504  
ID ABP5104 standard; peptide; 52 AA.  
XX

XX  
DT  
XX  
07-FEB-2003 (first entry)

PD 25-SEP-2003.  
XX  
PF 19-MAR-2003: 20

Adrenomedullin; human; protein engineering; solubility; aggregation; hypotensive; vasodilator; cyclic. KW

PR 19-MAR-2002; 2002JP-00075575.  
XX PA  
(HOKK-) HOKKAIDO TECHNOLOGY LICENSING OFFICE CC

Key location/Qualifiers  
XX Home sapiens.

PI Kobayashi M;  
XX  
DR WPI; 2003-767505/72

XXXX  
PN  
XX  
WO200283734-A2.

Peptides with erectile PT inhibiting prolifer PT applicable in drug

17-APR-2002; 2002WO-GB001778.  
PP  
XX

CC The invention relates to peptides comprising an amino acid sequence  
CC  
XX  
RS Claim 1; SEQ ID NO 1; 41pp; Japanese.

PA  
XX  
- - - - -  
(ISIS-) ISIS INNOVATION LTD.

卷之三

xx

Example; Page 21; 35pp; English.

Query Match: Best Local Similarity: 28.5%; Score: 72.5; DB: 7; Length: 52; Pred. No.: 0.028;

the present sequence is that of human adrenomedullin, a potent hypotensive and vasodilator. The invention provides modified calcitonin and related peptides, such as adrenomedullin, that have at least 70% identity to the native form but are modified such that the tendency of the peptide to aggregate is reduced. Preferred regions for modification

|    |  |    |
|----|--|----|
| QY | 9 GCVLTCQVQNLSHRLWQLMGPAGRQDSAPVDPSSPHSY | 47 |
| Db | 15 GCRRECTVOKLAHQIYQFT-DKDIDNAPRSKUSPOGY | 52 |

RESULT 9  
 ADG91993 standard; protein; 52 AA.  
 XX  
 AC  
 XX  
 DT 11-MAR-2004 (first entry)  
 XX  
 DE Human mature adrenomedullin protein.  
 XX  
 KW neuroleptic; antisense therapy; gene therapy; adrenomedullin agonist;  
 KW schizophrenia; gene expression; decidual protein induced by progesterone;  
 KW DEPP; adrenomedullin; cold shock domain protein A; cda; antisense;  
 KW siRNA; ribozyme; triple helix formation.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003078658-A2.  
 XX  
 PD 25-SEP-2003.  
 XX  
 PF 19-MAR-2003; 2003WO-EP002875.  
 XX  
 PR 20-MAR-2002; 2002US-0366001P.  
 XX  
 PA (NOVS ) NOVARTIS AG.  
 PA (NOVS ) NOVARTIS PHARMA GMBH.  
 XX  
 PT Buxton FP, Carpenter WT, Roberts RC, Tamminga CA;  
 XX  
 DR WPI; 2003-767532/72.  
 XX  
 PT Screening for schizophrenia in a population utilizing genes encoding the  
 PT decidual protein induced by progesterone, adrenomedullin and/or cold  
 PT shock domain protein A, useful in diagnosing, preventing and/or treating  
 PT schizophrenia.  
 XX  
 PS disclosure; SEQ ID NO 1; 41pp; English.  
 XX  
 CC The invention relates to a method of screening for schizophrenia in a  
 CC population comprising determining the magnitude of expression, in members  
 CC of the population, of at least one gene selected from the gene encoding  
 CC a decidual protein induced by progesterone (DEPP), the gene encoding  
 CC adrenomedullin and the gene encoding cold shock domain protein A (cda)  
 CC in a sample, and comparing the magnitude of expression to a baseline of  
 CC expression of the gene, where increased gene expression indicates the  
 CC presence of schizophrenia. An antisense molecule, siRNA, ribozyme or  
 CC nucleic acid molecule promoting triple helix formation that specifically  
 CC inhibit the expression of DEPP, cda or adrenomedullin genes, is useful  
 CC for the manufacture of a medicament for the treatment of schizophrenia.  
 CC An antibody that specifically binds an epitope of DEPP, cda or  
 CC adrenomedullin is also useful for the manufacture of a medicament for the  
 CC treatment of schizophrenia. This sequence represents the mature  
 XX sequence 52 AA;

Query Match 28.5%; Score 72.5; DB 7; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.028; Mismatches 17; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

Qy 9 GCVLGLTCQVNLNSHLWLWLMGPGAGRQDAPVDPSSPHSY 47  
 15 GCRFGTCTVQKLHQIYOPT-DKDKDNVAPRSKISPGY 52

RESULT 10  
 ADM94034 standard; peptide; 52 AA.  
 XX  
 AC  
 XX  
 DB ADM94034;  
 XX

RESULT 11  
 ADP03278 standard; peptide; 52 AA.  
 XX  
 AC  
 XX  
 DT 17-JUN-2004 (first entry)  
 XX  
 DE Exemplary peptide ligand for proteome analysis #2.

DT 17-JUN-2004 (first entry)  
 XX  
 Human AM peptide, a CRSP homologue.  
 XX  
 calcitonin receptor stimulating peptide; CRSP; cAMP activity;  
 KW skeletal disorder; cancer; hypertension; restenosis; analgesic;  
 KW appetite suppressant; diuretic; Vasotrophic; cyostatic; diuretic;  
 KW osteopathic; anorectic; hypotensive; human; AM.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003102180-A1.  
 XX  
 PD 11-DEC-2003.  
 XX  
 PF 28-MAY-2003; 2003WO-JP06641.  
 XX  
 PR 04-JUN-2002; 2002JP-00162797.  
 XX  
 PA (NISCA) JAPAN SCI & TECHNOLOGY CORP.  
 PA (NTNA) JAPAN NAT CARDIOVASCULAR.  
 XX  
 PI Minamino N, Katafuchi T;  
 XX  
 DR WPI; 2004-041113/04.  
 XX  
 PT Calcitonin receptor stimulating peptides promoting cAMP production in  
 PT cells for treatment of cancer, skeletal disorders and hypertension and as  
 PT appetite suppressants and analgesics.  
 XX  
 PS disclosure; Fig 2; 62pp; Japanese.  
 XX  
 CC This invention relates to novel calcitonin receptor stimulating peptides  
 CC (CRSPs) that are expressed in the central nervous system and act on the  
 CC calcitonin receptor to promote the production of cAMP within a cell.  
 CC Specifically, it refers to CRSPs that can stimulate concentration  
 CC dependent sodium ion uptake and furthermore act to inhibit calcium ion  
 CC uptake by the cell. The present invention describes mutant peptides  
 CC derived from the CRSPs that have additions, deletions and/or  
 CC substitutions of one or more amino acids, yet retain similar  
 CC activity and are useful for developing drug compositions and  
 CC pharmaceutically acceptable carriers to treat and/or prevent skeletal  
 CC disorders, cancer, hypertension and restenosis. Furthermore, CRSPs can  
 CC also be used as analgesics, appetite suppressants and diuretics such that  
 CC exhibit vasoconstrictive, cytostatic, diuretic, osteopathic, anorectic and  
 CC hypotensive activities. This peptide sequence is a human AM peptide that  
 CC has cAMP activity, given in an exemplification of the invention.  
 XX  
 SQ Sequence 52 AA;

Query Match 28.5%; Score 72.5; DB 8; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.028; Mismatches 17; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

Qy 9 GCVLGLTCQVNLNSHLWLWLMGPGAGRQDAPVDPSSPHSY 47  
 15 GCRFGTCTVQKLHQIYOPT-DKDKDNVAPRSKISPGY 52

RESULT 11  
 ADP03278 standard; peptide; 52 AA.  
 XX  
 AC  
 XX  
 DT 17-JUN-2004 (first entry)  
 XX  
 DE Exemplary peptide ligand for proteome analysis #2.

KK peptide ligand; proteome; capture compound; mass spectrometry;  
 KW protein separation;  
 KW matrix assisted laser desorption ionisation-time of flight; MALDI-TOF.  
 OS Unidentified.  
 XX US2003119021-A1.  
 PN 26-JUN-2003.  
 XX PR 16-JUL-2002; 2002US-0019754.  
 XX PR 16-JUL-2001; 2001US-0306019P.  
 XX PR 21-AUG-2001; 2001US-0314123P.  
 PR 11-MAR-2002; 2002US-0363433P.  
 XX PA (KOST/) KOSTER H.  
 PA (SIDD/) SIDDIQI S.  
 PA (LITT/) LITTLE D P.  
 PI Koster H, Siddiqi S, Little D P;  
 XX DR WPI; 2004-059185/06.  
 XX PT Collection of capture compounds capable of binding to biomolecules to  
 PT Collection of capture compounds capable of binding to biomolecules, especially proteins.  
 PT for analysis of biomolecules, especially proteins.  
 PS Disclosure; SEQ ID NO 2; 165PP; English.  
 XX CC The invention relates to a collection of capture compounds capable of  
 CC binding to biomolecules to form complexes that are stable under mass  
 CC spectrometry conditions. The formulae for the capture compounds comprises  
 CC sets of compounds of formula (I)-(III) given in the specification. Also  
 CC included are analysis of biomolecules (by contacting a composition  
 CC comprising a biomolecule with the above collection and identifying or  
 CC detecting bound biomolecules), separating protein conformers (by  
 CC contacting a composition comprising a biomolecule with the above  
 CC collection, separating the members of the collection and identifying  
 CC bound proteins), reducing diversity of a complex mixture of biomolecules  
 CC (by contacting the mixture with the above collection and separating each  
 CC set of complexes of capture compounds with biomolecules (by sorting cells  
 CC sets) and identifying phenotype-specific biomolecules (by sorting cells  
 CC from a single subject into sets according to a phenotype, contacting  
 CC mixtures of biomolecules from each set with the above collection and  
 CC comparing the patterns of biomolecule binding from each set). The  
 CC collection of capture compounds is useful for the analysis of  
 CC biomolecules, especially proteins (e.g. analysis of a proteome), using  
 CC mass spectrometry, especially matrix assisted laser desorption ionisation  
 CC -time of flight (MALDI-TOF) mass spectrometry. The present sequence is an  
 CC exemplary Peptide ligand which may be incorporated into a capture  
 CC compound of the invention.  
 SQ Sequence 52 AA;

Query Match 28.5%; Score 72.5; DB 8; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.028; Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

QY 9 GCGVLRGQVQVNLSRHLWLMGPGAGDSDAVDPSSPHSY 47  
 DB 15 GCRFGFCTVKQLAHQIYQFT-DKDKDNVAPRSKISPGY 52

RESULT 12  
 ADM98309  
 ID ADM98309 standard; protein; 52 AA.  
 XX AC ADM98309;  
 AC 15 GCRFGFCTVKQLAHQIYQFT-DKDKDNVAPRSKISPGY 52

RESULT 13  
 ADP18429  
 ID ADP18429 standard; protein; 52 AA.  
 AC ADP18429;  
 XX DT 26-AUG-2004 (first entry)

DE Neurogenesis modulation-related protein SeqID43.  
 XX KK neurogenesis modulation; neural tissue; central nervous system disorder;  
 KK neurodegenerative; ischaemic; learning and memory disorder;  
 KK blood pressure; vasodilator; vasodilatory shock; septic shock;  
 KK haemorrhagic shock; vasoconstrictor; hypotensive; immunosuppressive;  
 KK antibacterial.  
 XX OS Homo sapiens.  
 XX PN WO2004032708-A2.  
 XX PD 22-APR-2004.  
 XX PR 03-OCT-2003; 2003WO-US031400.  
 XX PR 04-OCT-2002; 2002US-0416291P.  
 XX PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 XX PT Cuttitta F, Martinez A, Stetler-Stevenson WG, Unsworth BJ;  
 PI Saavedra JM;  
 XX DR WPI; 2004-340778/31.  
 XX PT New AM(11-22) Peptides, useful for inducing vasoconstriction, or  
 PT for reducing blood pressure.  
 XX PS Disclosure; SEQ ID NO 3; 40PP; English.  
 XX CC This invention relates to a novel Peptide AM(11-22) useful for treating  
 CC shock, or in a pharmaceutical composition for inducing vasoconstriction.  
 CC Specifically, AM(11-22) is a short peptide derived from human  
 CC adrenomedullin (AM), which is a vasoregulatory compound that influences  
 CC blood pressure. The present invention describes screening assays to  
 CC identify compounds including antibodies, small molecule inhibitors or  
 CC peptides that modulate AM(11-22)-mediated vasoconstriction and as such  
 CC represent novel vasoconstrictors or vasoconstrictors. Accordingly, AM(11-22)  
 CC can be used therapeutically in a pharmaceutical composition to inhibit  
 CC blood flow following traumatic or surgical injury, as well as for  
 CC vasodilatory, septic or haemorrhagic shock, and thus exhibits vasoconstrictive,  
 CC hypotensive, immunosuppressive and antibacterial activities. This  
 CC polypeptide sequence is the mature human adrenomedullin protein of the  
 CC invention.

Sequence 52 AA;

Query Match 28.5%; Score 72.5; DB 8; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.028; Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

QY 9 GCGVLRGQVQVNLSRHLWLMGPGAGDSDAVDPSSPHSY 47  
 DB 15 GCRFGFCTVKQLAHQIYQFT-DKDKDNVAPRSKISPGY 52

RESULT 13  
 ADP18429  
 ID ADP18429 standard; protein; 52 AA.  
 AC ADP18429;  
 XX DT 26-AUG-2004 (first entry)

DE Neurogenesis modulation-related protein SeqID43.  
 XX KK neurogenesis modulation; neural tissue; central nervous system disorder;  
 KK neurodegenerative; ischaemic; learning and memory disorder;  
 KK neurological trauma; nootropic; neuroprotective; CNS-Gen;  
 KK cerebroprotective; vasoconstrictor; anticonvulsant; anti-parkinsonian;  
 KK haemostatic; hypertensive; muscular-Gen; ophthalmological;  
 KK antiinflammatory; analgesic; antidiabetic; neurogenesis modulator;  
 KK neural stem cell; progenitor cell;

KW neural tissue G-protein coupled receptor activator; neurogenesis inducer;  
 KW intracellular neural cAMP enhancer; intracellular neural cAMP stimulator;  
 KW intracellular neural Ca 2+ enhancer; Parkinson's disease;  
 KW Parkinson's disorder; Huntington's disease; Alzheimer's disease;  
 KW multiple sclerosis; amyotrophic lateral sclerosis; Shy-Drager syndrome;  
 KW ischaemic stroke; cerebral infarction; spinal cord injury; multi-infarct dementia;  
 KW cancer-related brain; spinal cord injury; multi-infarct dementia;  
 KW geriatric dementia; cAMP level; embryonic tissue; human.  
 OS Homo sapiens.  
 PN WO2004045592-A2.  
 XX PD 03-JUN-2004.  
 XX PR 20-NOV-2003; 2003WO-IB005311.  
 XX PR 20-NOV-2002; 2002US-0427912P.  
 XX PA (NEUR-) NEURONNOVA AB.  
 PA (IBRT/ BERTILSSON G.  
 PA (ERLA/ ERLANDSSON R.  
 PA (FRIS/ FRISÉN J.  
 PA (HAEG/ HÄGGSTRÅND A.  
 PA (HEID/ HEIDRICH J.  
 PA (HAEG/ HÄGGBLAD J.  
 PA (JANS/ JANSSON K.  
 PA (KORT/ KORTESMAA J.  
 PA (LIND/ LINDBERG P.  
 PA (LUND/ LUNDH H.  
 PA (MCGU/ MC GUIRE J.  
 PA (MERC/ MERCER A.  
 PA (NUBE/ NJØRG K.  
 PA (OSO/ OSSOINAK A.  
 PA (PATR/ PATRONE C.  
 PA (ROEN/ ROENNHØM H.  
 PA (ZACH/ ZACHRISSON O.  
 PA (WIKS/ WIKSTØRM L.  
 PI Bertilsson G., Erlansson R., Frisen J., Haeggstrand A., Heidrich J.;  
 PI Hallström K., Haeggblad J., Jansson K., Kortesmaa J., Lindquist P.;  
 PI Lundh H., McGuire J., Mercer A., Njørg K., Ossoinak A., Patrone C.;  
 PI Roenholm H., Zachrisson O., Wikstrom L.;  
 XX DR WPI; 2004-449666/42.  
 XX PT Use of agent(s) that elevate intracellular cyclic adenosine monophosphate  
 PT or intracellular calcium levels in neural tissue for modulating  
 PT neurogenesis to treat central nervous system disorder.  
 XX PS disclosure; SEQ ID NO 43; 77pp; English.  
 XX CC This invention relates to a novel method of modulating neurogenesis in  
 CC the neural tissue of a patient exhibiting symptom(s) of a central nervous  
 CC system disorder, such as neurodegenerative, ischaemic or learning and  
 CC memory disorder or neurological trauma. The method involves at least one  
 CC agent (A) that elevates intracellular cyclic adenosine monophosphate  
 CC (cAMP) levels or at least one agent (B) that elevates intracellular Ca 2+  
 CC levels in the neural tissue, which is administered where (A) modulates  
 CC and (B) induces neurogenesis. The invention may be useful for the  
 CC production of compounds with a nootropic neuroprotective, CNS-Gen,  
 CC cerebroprotective, vasoactive, anticonvulsant, anti-parkinsonian,  
 CC haemostatic, hypertensive, muscular-gen, ophthalmological,  
 CC antiinflammatory, analgesic or antidiabetic activity. These compounds may  
 CC act as neurogenesis modulators, neural stem or progenitor cell  
 CC proliferation, differentiation and/or migration modulators, neural tissue  
 CC G-protein coupled receptor activators, neurogenesis inducers,  
 CC intracellular neural cAMP enhancers, intracellular neural cAMP  
 CC stimulators or intracellular neural Ca 2+ enhancers. The invention is  
 CC exhibiting at least one symptom of central nervous system disorder, such  
 CC as Parkinson's disease and Parkinson's disorders, Huntington's disease,  
 CC Alzheimer's disease, multiple sclerosis, amyotrophic lateral sclerosis,  
 CC Shy-Drager syndrome, progressive supranuclear palsy, Lewy body disease,  
 CC spinal ischaemia, ischaemic stroke, cerebral infarction, spinal cord  
 CC injury, cancer-related brain and spinal cord injury, multi-infarct  
 CC dementia and geriatric dementia; for increasing the intracellular levels  
 CC of, or stimulating cAMP levels in a cell (preferably a cell from a neural  
 CC tissue) and for in vitro modulation of neurogenesis. The agent modulates  
 CC neurogenesis in neural tissue by modulating proliferation, differentiation,  
 CC migration or survival of neural stem cells or progenitor  
 CC cells in the tissue; by maintaining or increasing the amount or  
 CC percentage of doublecortin positive cells in the neural tissue relative  
 CC to a patient not dosed with the agent or, by activation of a G-protein  
 CC coupled receptor in the neural tissue. The method results in elevation of  
 CC cAMP levels of the neural stem cells by over 20% compared to untreated  
 CC tissue. The in vivo induction of neurogenesis allows treatment of  
 CC disorders caused by cell loss, injury or disease by endogenous  
 CC replacement and obviates the need for transplanting foreign cells into a  
 CC patient. Neurogenesis can also be induced by administration of the  
 CC neurogenesis-modulating agent directly into a desired site, which avoids  
 CC unnecessary systemic administration and possible side effects and further  
 CC provides an alternative to the use of drugs and the controversial use of  
 CC large quantities of embryonic tissue for treatment of Parkinson's  
 CC disease. The present disclosure is that of a polypeptide which has been  
 CC shown to have the ability to increase intracellular cAMP levels and which  
 CC is related to the method of the invention.  
 XX SQ Sequence 52 AA;

Query Match 28.5%; Score 72.5; DB 8; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0.028; Mismatches 17; Indels 1; Gaps 1;  
 Matches 15; Conservative 6; CC  
 QY 9 GCGVUGTCQVQNLSHRLWQMLPGAGRQDSAPVDPFSSPHY 47  
 DB 15 GCGRGCTCTVQKLAHQVQPT-DKDKDNTPAQRSKPSQCY 52  
 RESULT 14  
 ADP18402  
 ID ADP18402: standard; protein; 52 AA.  
 XX AC ADP18402;  
 XX DT 26-AUG-2004 (first entry)  
 XX DE Neurogenesis modulation-related protein SeqId16.  
 XX PT neurogenesis modulation; neural tissue; central nervous system disorder;  
 PT neurodegenerative; ischaemic; learning and memory disorder;  
 PT neurological trauma; nootropic; neuroprotective; CNS-Gen;  
 PT cerebroprotective; vasoactive; anticonvulsant; anti-parkinsonian;  
 PT haemostatic; hypertensive; muscular-gen; ophthalmological;  
 PT antiinflammatory; analgesic; antidiabetic; neurogenesis modulator;  
 KW neural stem cell; progenitor cell;  
 KW neural tissue G-protein coupled receptor activator; neurogenesis inducer;  
 KW intracellular neural cAMP enhancer; intracellular neural cAMP stimulator;  
 KW intracellular neural Ca 2+ enhancer; Parkinson's disease;  
 KW Parkinson's disorder; Huntington's disease; Alzheimer's disease;  
 KW multiple sclerosis; amyotrophic lateral sclerosis; Shy-Drager syndrome;  
 KW progressive supranuclear palsy; Lewy body disease; spinal ischaemia;  
 KW ischaemic stroke; cerebral infarction; spinal cord injury;  
 KW cancer-related brain; spinal cord injury; multi-infarct dementia;  
 KW geriatric dementia; cAMP level; embryonic tissue; human.  
 XX OS Homo sapiens.  
 XX PN WO2004045592-A2.  
 XX PD 03-JUN-2004.  
 XX PR 20-NOV-2003; 2003WO-IB005311.  
 XX

PR 20-NOV-2002; 2002US-0427912P.  
 XX  
 PA (NEUR-) NETRONOVA AB.  
 PA (BERT-) BERTILSSON G.  
 PA (ERLA-) ERLANDSSON R.  
 PA (ERIS-) FRISEN J.  
 PA (HEID-) HEIDRICH J.  
 PA (HELL-) HELSTROM K.  
 PA (HREG-) HAEGBLAD J.  
 PA (JANS-) JANSSON K.  
 PA (KORT-) KORTESMAA J.  
 PA (LIND-) LINDBERG P.  
 PA (LUND-) LUNDH H.  
 PA (MCGL-) MC GUIRE J.  
 PA (MERC-) MERCER A.  
 PA (NUBE-) NUERG K.  
 PA (OSO-) OSSOINAK A.  
 PA (PATR-) PATRONE C.  
 PA (ROEN-) ROENHOLM H.  
 PA (ZACH-) ZACHRISSON O.  
 PA (WIKS-) WIKSTROM L.

XX  
 PT Bertilsson G, Erlandsson R, Frizen J, Haegestrand A, Heidrich J, Hellstrom K, Haegglad J, Jansson K, Kortesmaa J, Lindquist P, Lundh H, McGuire J, Mercer A, Nuerberg K, Ossoinak A, Patrone C, Roenholm H, Zachrisson O, Wikstrom L;  
 PT XX  
 DR WPI; 2004-449666/42.

XX  
 PT Use of agent (B) that elevate intracellular cyclic adenosine monophosphate or intracellular calcium levels in neural tissue for modulating neurogenesis to treat central nervous system disorder.  
 PT XX  
 PS Disclosure; SEQ ID NO 16; 77PP; English.

XX  
 CC This invention relates to a novel method of modulating neurogenesis in the neural tissue of a patient exhibiting symptom(s) of a central nervous system disorder, such as neurodegenerative, ischaemic or learning and memory disorder or neurological trauma. The method involves at least one agent (A) that elevates intracellular cyclic adenosine monophosphate (cAMP) levels or at least one agent (B) that elevates intracellular  $Ca^{2+}$  levels in the neural tissue, which is administered where (A) modulates and (B) induces neurogenesis. The invention may be useful for the production of compounds with a nootropic, neuroprotective, CNS-Gen, cerebroprotective, vasoactive, anticonvulsant, anti-parkinsonian, haemostatic, hypertensive, muscular-Gen, ophthalmological, antiinflammatory, analgesic or antidiabetic activity. These compounds may act as neurogenesis modulators, neural stem or progenitor cell proliferation, differentiation and/or migration modulators, neural tissue G-protein coupled receptor activators, neurogenesis inducers, intracellular neural cAMP enhancers, intracellular neural cAMP stimulators or intracellular neural  $Ca^{2+}$  enhancers. The invention is useful for modulating neurogenesis in neural tissue of a patient exhibiting at least one symptom of central nervous system disorder, such as Parkinson's disease and Parkinson's disorders, Huntington's disease, Alzheimer's disease, multiple sclerosis, amyotrophic lateral sclerosis, Shy-Drager syndrome, progressive supranuclear palsy, Lewy body disease, spinal ischaemia, ischaemic stroke, cerebral infarction, spinal cord injury, cancer-related brain and spinal cord injury, multi-infarct dementia and geriatric dementia; for increasing the intracellular levels of or stimulating cAMP level in a cell (preferably a cell from a neural tissue); and for in vitro modulation of neurogenesis. The agent modulates neurogenesis in neural tissue by modulating proliferation, differentiation, migration or survival of neural stem cells or progenitor cells in the tissue; by maintaining or increasing the amount or percentage of doublecortin positive cells in the neural tissue relative to a patient not dosed with the agent or by activation of a G-protein coupled receptor in the neural tissue. The method results in elevation of cAMP levels of the neural stem cells by over 20% compared to untreated tissue. The in vivo induction of neurogenesis allows treatment of disorders caused by cell loss, injury or disease by endogenous replacement and obviates the need for transplanting foreign cells into a

CC patient. Neurogenesis can also be induced by administration of the neurogenesis-modulating agent directly into a desired site, which avoids unnecessary systemic administration and possible side effects and further provides an alternative to the use of drugs and the controversial use of large quantities of embryonic tissue for treatment of Parkinson's disease. The present sequence is that of a polypeptide which has been shown to have the ability to increase intracellular cAMP levels and which is related to the method of the invention.

CC Sequence 52 AA;

CC Query Match 28.5%; Score 72.5; DB 8; Length 52;

CC Best Local Similarity 38.5%; Pred. No. 0.028; 1; Gaps 1;

CC Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

CC DB 15 GQFRGCTVQKLAHQIYQFT-DKDKNVWRSKSPQY 52

CC RESULT 15

XX ID ADR42113 standard; peptide; 52 AA.

XX AC ADR42113;

XX DT 21-OCT-2004 (first entry)

XX DB Adrenomedullin related peptide ligand, SEQ ID 2.

XX KM Human; ligand; Adrenomedullin.

XX OS Homo sapiens.

XX PN WO2004064972-A2.

XX PD 05-AUG-2004.

XX PP 16-JAN-2004; 2004WO-US001037.

XX PR 16-JAN-2003; 2003US-0441398P.

XX PA (HKPH-) HK PHARM INC.

XX (KOE-) KOESTER H.

XX PI Koester H, Little DP, Siddiqi SM, Greasham MP, Marappan S;

XX PI Hassman CF, YIP P;

XX DR WPI; 2004-642213/62.

XX PT Identifying drug non-target biomolecules in mixture of biomolecules having high binding affinity and analyzing captured biomolecules to identify drug non-targets.

XX PS Disclosure; SEQ ID NO 2; 368PP; English.

CC The present invention relates to a method for identifying drug non-target biomolecules in a mixture of biomolecules. The method comprises interacting mixture with capture compounds having moiety X which covalently binds to biomolecules with high affinity, moiety Y which increases selectivity of binding so that the capture compound binds to fewer biomolecules, and moiety Z for presenting X and Y, and analysing captured biomolecules to identify drug non-targets. The capture compound also optionally comprises a sorting function moiety Q and/or a solubility function moiety W. The selectivity function moiety Y serves to modulate the reactivity function by reducing the number of groups to which the reactivity function moiety X bind, such as by steric hindrance and other interactions. Y is optionally a peptide ligand (ADR42112-ADR42256).

CC Sequence 52 AA;

CC Query Match 28.5%; Score 72.5; DB 8; Length 52;

Thu May 5 18:51:37 2005

us-10-723-368-5.rag

Page 9

Best Local Similarity 38.5%; Pred. No. 0.028; Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;  
Qy 9 GCVLGLTCQWNLSHRLWQLMGPAGRDSAPVDPSSPHSY 47  
Db 15 GCRIGTCTVQLANQIYQFM-DKQDNVAPRSKISPGY 52

Search completed: May 4, 2005, 18:11:09  
Job time : 164 secs

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|          |  |                    |   |
|----------|--|--------------------|---|
| OS       | Name=Adm2; Symonyme=An2;   | SEQUENCE FROM N.A. | [1]   |
| OC       | Rattus norvegicus (Rat);   | RX                 | SEQUENCE FROM N.A.  |
| OC       | Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;  | RX                 | RX  |
| OC       | Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  | RA                 | MEDLINE:22984567; Published=14623291; DOI=10.1016/j.bbrc.2003.10.111;                         |
| OC       | NCBI_TaxID=10116;  | RA                 | Ogoshi M., Inoue K., Takei Y.,  |
| OC       | "Identification of a novel adrenomedullin gene family in teleost fish.;"   | RT                 | "Identification of a novel adrenomedullin gene family in teleost fish.;"                      |
| OC       | FEBS Lett. 556:53-58(2004).  | RL                 | Biochem. Biophys. Res. Commun. 311:1072-1077(2003).   |
| RN       | TISSUE=Kidney; PubMed=14706825; DOI=10.1016/S0014-5793(03)01368-1;   | DR                 | ISMBL; AB120257; BAD0243.1; -;  |
| RX       | Takei Y., Inoue K., Ogoshi M., Kawahara T., Baumai H., Miyano S.;  | DR                 | Sequence 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| RA       | "Identification of a novel adrenomedullin in mammals: a potent cardiovascular and renal regulator.;"   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| RT       | FEBS Lett. 556:53-58(2004).  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| RT       | FUNCTION, AND TISSUE SPECIFICITY.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| RX       | PubMed=141615490; DOI=10.1074/jbc.M305332200;  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| RA       | Ron J., Chang C.L., Blailla A., Klein C., Hsu S.Y.;  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| RT       | "Intermedin is a calcitonin/calcitonin gene-related peptide family peptide acting through the calcitonin receptor-like receptor/activit-modifying protein receptor complexes.;"  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| RT       | J. Biol. Chem. 279:7264-7274(2004).  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| CC       | -i- FUNCTION: IMPD and IMDs may play a role as physiological regulators of gastrointestinal, cardiovascular bioactivities mediated by the CALCR/RAMPs receptor complexes. Activates the CAMP-dependent pathway.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| CC       | -i- SUBCELLULAR LOCATION: Secreted.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| CC       | -i- TISSUE SPECIFICITY: Expression was restricted to the intermediate and anterior lobes of the pituitary.   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| CC       | -i- SIMILARITY: Belongs to the adrenomedullin family.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| CC       | This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement. (See <a href="http://www.isb-sib.ch/announce/">http://www.isb-sib.ch/announce/</a> or send an email to license@isb-sib.ch): | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| CC       | EMBL; AB121036; BAD0713.1; -i- Amidation; Cleavage on pair of basic residues; Hormone; Signal.   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| FT       | PROTEIN SIGNAL 1 25 Potential.   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| FT       | PROPEP 26 96 By similarity.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| FT       | PPPTIDE 99 145 Adrenomedullin 2 (By similarity).   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| FT       | DEPTIDE 106 145 Intermedin-short (Potential).  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| FT       | DISULFID 108 113 By similarity.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| FT       | MOD_RES 145 145 Tyrosine amide. (G-146 provides amide group) (Probable).   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| FT       | SEQUENCE 146 AA; 15572 MW; C87043237AD29DDC CRC64;   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| QY       | 3 AQLRVRGCVLGTQVQNLSHRLQMLQAGRQDASAPVDPSSPSY 47  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| Db       | 101 AQLRVRGCVLGTQVQNLSHRLQMLQAGRQDASAPVDPSSPSY 145   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| RESULT 4 | PRELIMINARY; PRT; 159 AA.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| Q75XW6   | PRELIMINARY;   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| AC       | 075XW6; 05-JUL-2004 (TREMBlre. 27, Created)  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| ID       | 075XW6 05-JUL-2004 (TREMBlre. 27, Last sequence update)  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| DT       | 05-JUL-2004 (TREMBlre. 27, Last annotation update)   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| DE       | Adrenomedullin-3.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| GN       | Name=Adm3; Fugu rubripes (Japanese pufferfish) (Takifugu rubripes).<br>Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Actinopterygii; Neopterygii; Teleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes; Tetraodontidae; Tetraodontidae; Takifugu.   | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| OS       | Fugu rubripes (Japanese pufferfish) (Takifugu rubripes).<br>Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Actinopterygii; Neopterygii; Teleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes; Tetraodontidae; Tetraodontidae; Takifugu.  | DR                 | SEQUENCE 159 AA; 18028 MW; F1863B20100B254D CRC64;  |
| OC       | "Identification of a novel adrenomedullin gene family in teleost fish.;"   | RT                 | "Identification of a novel adrenomedullin gene family in teleost fish.;"                      |
| OC       | FEBS Lett. 556:53-58(2004).  | RT                 | Biochem. Biophys. Res. Commun. 311:1072-1077(2003).   |
| OC       | J. Biol. Chem. 279:7264-7274(2004).  | RT                 | 311:1072-1077(2003).  |
| OC       | PubMed=141615490; DOI=10.1074/jbc.M305332200;  | RT                 | Medline:22984567; Published=14623291; DOI=10.1016/j.bbrc.2003.10.111;                         |
| OC       | Ron J., Chang C.L., Blailla A., Klein C., Hsu S.Y.;  | RT                 | Ogoshi M., Inoue K., Takei Y.,  |
| OC       | "Intermedin is a calcitonin/calcitonin gene-related peptide family peptide acting through the  | RT                 | "Intermedin is a calcitonin/calcitonin gene-related peptide family peptide acting through the |
| OC       | NCBI_TaxID=1033;   | RT                 | NCBI_TaxID=1033;  |







|                       |   |    |          |     |     |                                      |
|-----------------------|---|----|----------|-----|-----|--------------------------------------|
| DR                    | GO: GO-0005576; C:extracellular; IEA.   | FT | PPETIDE  | 95  | 146 | adrenomedullin.                      |
| DR                    | GO: 0005179; F:hormone activity; IEA.   | FT | PROPEP   | 153 | 188 | PreproM C-terminal fragment (BY      |
| DR                    | InterPro; IPR001710; Adrenomedullin.  | FT | DISULFID | 110 | 115 | similarity).                         |
| DR                    | PFam; PF02039; Adrenomedullin.  | FT | MOD_RES  | 41  | 41  | By similarity.                       |
| DR                    | PRINTS; PRO0801; ADRENOMEDULLIN.  | FT | MOD_RES  | 146 | 146 | Arginine amide (G-42 provides amide  |
| SQ                    | SEQUENCE: 188 AA; 20963 MW; 6102869A756DCA85 CRC64;   | FT | MOD_RES  | 146 | 146 | group).                              |
| Query Match           | 28.1%; Score 71.5; DB 2; Length 188;  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| Best Local Similarity | 38.5%; Pred. No. 0; 47; Mismatches 5; Indels 1; Gaps 1;   | FT | MOD_RES  | 146 | 146 | group).                              |
| Matches               | 15; Conservative 5; Mismatches 18; Indels 1; Gaps 1;  | FT | MOD_RES  | 146 | 146 | 7179460P5660A1 CRC64;                |
| Qy                    | 9 GCVLGTCCOVONSHRLWQLMQAGROQSPAPVDPSSPHY 47   | FT | MOD_RES  | 146 | 146 | Arginine amide (G-42 provides amide  |
| Db                    | 109 GCRFGTCTVOKLAHQIVHFT-DKDQDGSSAPRSKISPOGY 146  | FT | MOD_RES  | 146 | 146 | group).                              |
| RESULT 14             |   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| ID                    | ADM1_PIG  | FT | MOD_RES  | 146 | 146 | group).                              |
| ID                    | P53366;   | FT | MOD_RES  | 146 | 146 | 7179460P5660A1 CRC64;                |
| DT                    | 01-OCT-1995 (Rel. 34; Last sequence update)   | FT | MOD_RES  | 146 | 146 | Arginine amide (G-42 provides amide  |
| DT                    | 05-JUL-2004 (Rel. 44; Last annotation update)   | FT | MOD_RES  | 146 | 146 | group).                              |
| DB                    | ADM precursor (Contains: Adrenomedullin (AM); Proadrenomedullin N-20 terminal peptide (PAM-N20) (ProAM N-terminal 20 peptide) (PAMP)).  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| GN                    | Name=ADM; Synonyms=AM;  | FT | MOD_RES  | 146 | 146 | group).                              |
| OS                    | Sub scrofa (Pig).   | FT | MOD_RES  | 146 | 146 | 7179460P5660A1 CRC64;                |
| OC                    | Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Buteraria; Getaertiodactyla; Suina; Suidae; Sus.  | FT | MOD_RES  | 146 | 146 | Arginine amide (G-42 provides amide  |
| OC                    | NCBI - TaxID:9823;  | FT | MOD_RES  | 146 | 146 | group).                              |
| RN                    | [1]   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| RP                    | SEQUENCE FROM N.A.  | FT | MOD_RES  | 146 | 146 | group).                              |
| RX                    | MEDLINE-94139945; PubMed=8043068; DOI=10.1016/0014-5793(94)80289-0.   | FT | MOD_RES  | 146 | 146 | 7179460P5660A1 CRC64;                |
| RT                    | Kitamura K., Kangawa K., Kojima M., Ichiki Y., Matsumoto H., Eto T.;  | FT | MOD_RES  | 146 | 146 | Arginine amide (G-42 provides amide  |
| RT                    | "Complete amino acid sequence of porcine adrenomedullin and cloning of cDNA encoding its precursor.", FEBS Lett. 338:306-310(1994). [2]   | FT | MOD_RES  | 146 | 146 | group).                              |
| RP                    | SEQUENCE OF 22-41.  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| RC                    | TISSUE-Adrenal medulla;   | FT | MOD_RES  | 146 | 146 | group).                              |
| RX                    | MEDLINE=94157274; PubMed=8076689; DOI=10.1016/0014-5793(94)00810-8;   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| RA                    | Kitamura K., Kangawa K., Ishiyama Y., Washimine H., Ichiki Y., Kawamoto M., Minamino N., Matsuo H., Eto T.;   | FT | MOD_RES  | 146 | 146 | group).                              |
| RT                    | "Identification and hypotensive activity of proadrenomedullin N-terminal 20 peptide (PAMP).", FEBS Lett. 351:53-57(1994).   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| RL                    | PEBS Lett. 351:53-57(1994).   | FT | MOD_RES  | 146 | 146 | group).                              |
| CC                    | -- FUNCTION: AM and PAMP are potent hypotensive and vasodilator agents.   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| CC                    | -- SUBCELLULAR LOCATION: Secreted.  | FT | MOD_RES  | 146 | 146 | group).                              |
| CC                    | -- TISSUE SPECIFICITY: Highly expressed in adrenal glands, lung and kidney.   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| CC                    | -- SIMILARITY: Belongs to the adrenomedullin family.  | FT | MOD_RES  | 146 | 146 | group).                              |
| CC                    | This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <a href="http://www.ibs-sib.ch/announce/">http://www.ibs-sib.ch/announce/</a> or send an email to license@ibs-sib.ch).   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| CC                    | EMBL; D14875; BAA03550.1; -.  | FT | MOD_RES  | 146 | 146 | group).                              |
| DR                    | PIR: S41600; S41600; InterPro; IPR001710; Adrenomedullin.   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| DR                    | InterPro; IPR01038; Calycin.  | FT | MOD_RES  | 146 | 146 | group).                              |
| DR                    | PFam: PF00339; Adrenomedullin; 1.   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| DR                    | PRINTS; PRO0801; ADRENOMEDULLIN.  | FT | MOD_RES  | 146 | 146 | group).                              |
| KW                    | Amidation; Cleavage on pair of basic residues; Direct protein sequencing; Hormone; Signal.  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| FT                    | SIGNAL 1 21   | FT | MOD_RES  | 146 | 146 | group).                              |
| FT                    | PEPTIDE 22 41   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| FT                    | PROPEP 45 92  | FT | MOD_RES  | 146 | 146 | group).                              |
| RESULT 15             |   | FT | PPETIDE  | 95  | 146 | adrenomedullin.                      |
| ID                    | Q85575;   | FT | PROPEP   | 153 | 188 | PreproM C-terminal fragment (BY      |
| ID                    | Q85575;   | FT | DISULFID | 110 | 115 | similarity).                         |
| AC                    | Q85575;   | FT | DISULFID | 110 | 115 | By similarity.                       |
| AC                    | Q85575;   | FT | MOD_RES  | 146 | 146 | Arginine amide (G-42 provides amide  |
| DT                    | 01-MAR-2004 (TREMBLrel. 26; Last sequence update)   | FT | MOD_RES  | 146 | 146 | group).                              |
| DT                    | 01-MAR-2004 (TREMBLrel. 26; Last annotation update)   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| DB                    | Protein.  | FT | MOD_RES  | 146 | 146 | group).                              |
| GN                    | Name=NCU02295.1;  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| OS                    | Neurospora crassa.  | FT | MOD_RES  | 146 | 146 | group).                              |
| OC                    | Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes; Sordariomycetidae; Sordariales; Sordariaceae; Neurospora.  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| OK                    | NCBI - TaxID:5141;  | FT | MOD_RES  | 146 | 146 | group).                              |
| RN                    | [1]   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| RP                    | SEQUENCE FROM N.A.  | FT | MOD_RES  | 146 | 146 | group).                              |
| RC                    | STRAIN=OR74A;   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| RA                    | Calagari J.E.; Calvo S.E.; Borkovich K.A.; Selker E.U.; Read N.D.; Jaffe D.; FitzHugh W.; Ma L.-J.; Smirnov S.; Purcell S.; Lehman B.; Elkins T.; Engels R.; Wang S.; Nielsen C.B.; Butler J.; Endrizzi M.; Qui D.; Janakiev P.; Pedersen D.; Nelson M.; Washburn M.; Selitrennikoff C.P.; Kinsey J.A.; Braun B.L.; Zelter A.; Schulte U.; Kotche G.O.; Jedd G.; Newes W.; Staben C.; Marcotte E.; Greenberg D.; Roy A.; Foley K.; Navarro J.; Thomann N.; Barrett R.; Guerre S.; Kamal M.; Kamyveselis M.; Mauceli E.; Belke C.; Rudd S.; Prishman D.; Krystorovka S.; Rasmussen C.; Metzgerberg R.L.; Perkins D.D.; Kroken S.; Cogoni C.; Macino G.; Catcheside D.; Li W.; Pratt R.J.; Osman S.A.; DeSouza C.C.; Glass L.; Orthach M.J.; Berglund J.; Voelker R.; Yarden O.; Plamann M.; Seiler S.; Dunlap J.; Radford A.; Aramayo R.; Paulsen I.; Sachs M.S.; Ebbole G.; Belke C.; Birren B.; EMBL; BAA03703.1; -. | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| RA                    | "The Genome Sequence of the Filamentous Fungus Neurospora crassa.", Nature 0:0-0 (2003).  | FT | MOD_RES  | 146 | 146 | group).                              |
| CC                    | -- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is preliminary data.  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| CC                    | EMBL; AABX0100355; BAA30703.1; -.   | FT | MOD_RES  | 146 | 146 | group).                              |
| DR                    | HS3P; IBO1;   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| DR                    | GO; GO:0016308; F1-phosphatidylinositol-4-phosphate 5-kinase.   | FT | MOD_RES  | 146 | 146 | group).                              |
| DR                    | InterPro; IPR002498; PIP5K.   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| DR                    | PFam; PF01504; PIP5K; 1.  | FT | MOD_RES  | 146 | 146 | group).                              |
| KW                    | Hypothetical protein.   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| FT                    | SEQUENCE 927 AA; 102558 MW; 21FDCC49FR419E932 CRC64;  | FT | MOD_RES  | 146 | 146 | group).                              |
| DR                    | EMBL; D14875; BAA03550.1; -.  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| DR                    | PIR: S41600; S41600; InterPro; IPR001710; Adrenomedullin.   | FT | MOD_RES  | 146 | 146 | group).                              |
| DR                    | InterPro; IPR01038; Calycin.  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| DR                    | PFam: PF00339; Adrenomedullin; 1.   | FT | MOD_RES  | 146 | 146 | group).                              |
| DR                    | PRINTS; PRO0801; ADRENOMEDULLIN.  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| KW                    | Amidation; Cleavage on pair of basic residues; Direct protein sequencing; Hormone; Signal.  | FT | MOD_RES  | 146 | 146 | group).                              |
| FT                    | SIGNAL 1 21   | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| FT                    | PEPTIDE 22 41   | FT | MOD_RES  | 146 | 146 | group).                              |
| FT                    | PROPEP 45 92  | FT | MOD_RES  | 146 | 146 | Tyrosine amide (G-147 provides amide |
| FT                    | SEQUENCE 927 AA; 102558 MW; 21FDCC49FR419E932 CRC64;  | FT | MOD_RES  | 146 | 146 | group).                              |
| Query Match           | 27.4%; Score 70; DB 2; Length 927;  | FT | PPETIDE  | 95  | 146 | adrenomedullin.                      |
| Best Local Similarity | 72.2%; Pred. No. 4.2; Mismatches 4; Indels 0; Gaps 0;   | FT | PROPEP   | 153 | 188 | PreproM C-terminal fragment (BY      |
| Matches               | 13; Conservative 1; Mismatches 4; Indels 0; Gaps 0;   | FT | DISULFID | 110 | 115 | similarity).                         |
| Qy                    | 30 PAGROQSPAPVDPSSPHY 47  | FT | DISULFID | 110 | 115 | By similarity.                       |
| Db                    | 123 PAQRDSSAPSPSSPHY 140  | FT | MOD_RES  | 41  | 41  | Arginine amide (G-42 provides amide  |

Search completed: May 4, 2005, 18:14:12

Job time : 178 secs

Thu May 5 18:51:38 2005

us-10-723-368-5.rup

GenCore version 5.1.6  
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Om protein - protein search, using BW model

Run on:

May 4, 2005, 17:58:05 ; Search time 39 Seconds

(without alignments)

115.954 Million cell updates/sec

Title: Perfect score: 254

Sequence: 1 TQDQLRVLVSCVLGLCQVQNL..... MGPAGRQOSAPVDPSSSPHSY 47

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched:

283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Maximum Match 0%

Listing first 45 summaries

database : PIR 79:\*

1: Pir1:\*

2: Pir2:\*

3: Pir3:\*

4: Pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result: 283416 Query NO. Score Match Length DB ID Description

30 51.5 20.3 977 2 I56567 seizure-related pr  
31 51 20.1 106 2 A05148 hypothetical reduc  
32 51 20.1 407 2 F22703 42K membrane glyco  
33 51 20.1 552 2 S15555 NAD synthase (EC 6  
34 51 20.1 771 2 G71409 probable replicati  
35 51 20.1 813 2 E81135 hypothetical prote  
36 51 20.1 1359 2 T10235 xanthine dehydroge  
37 51 20.1 3898 1 GNNWHC genome polypeptide  
38 51 20.1 4544 1 S02392 alpha-2-macroglobul  
39 50.5 19.9 296 2 T12469 hypothetical prote  
40 50.5 19.9 317 2 S22087 peroxidase (EC 1.1  
41 50.5 19.9 397 2 T19022 hypothetical prote  
42 50.5 19.9 460 2 AG262 hypothetical prote  
43 50.5 19.9 488 2 T33622 hypothetical prote  
44 50.5 19.9 503 2 A85900 hypothetical prote  
45 50.5 19.9 503 2 E91055 hypothetical prote

#### ALIGNMENTS

#### RESULT 1

JN0684 adrenomedullin precursor - human

C.Species: Homo Sapiens (man)  
C.Date: 03-Feb-1994 #Sequence revision 03-Feb-1994 #text\_change 09-Jul-2004  
C.Accession: JCN351; JN0684; P10548; JN076  
R.Ishimitsu, T.; Kojima, M.; Kawagawa, K.; Hino, J.; Matsuo, H.; Kitamura, K.; Eto, T.;  
Biochem. Biophys. Res. Commun. 2003, 331:639, 1994  
A.Title: Genomic structure of human adrenomedullin gene.  
A.Reference number: JCN351; MUID:94354869; PMID:8074714

A.Residues: 1-185 <ISM>  
A.Molecule type: DNA  
A.Accession: JCN351;  
A.Molecule type: DNA  
A.Residues: 1-185 <ISM>  
A.Experimental source: pheochromocytoma  
R.Kitamura, K.; Sakata, J.; Kawagawa, K.; Kojima, M.; Matsuo, H.; Eto, T.  
Biochem. Biophys. Res. Commun. 1994, 720-725, 1993  
A.Title: Cloning and characterization of cDNA encoding a precursor for human adrenomedullin gene.  
A.Reference number: JN0684; MUID:93343928; PMID:7688224

A.Molecule type: mRNA  
A.Residues: 1-185 <KIT>  
A.Cross-references: GB:DI4874; NID:9455470; PIDN:BA03589.1; PID:9500612  
A.Accession: P10548  
A.Molecule type: protein  
A.Residues: 22-41 <KIT>  
R.Kitamura, K.; Kawagawa, K.; Kawamoto, M.; Ichiki, Y.; Nakamura, S.; Matsuo, H.; Eto, T.  
Biochem. Biophys. Res. Commun. 1992, 553:560, 1993  
A.Title: Adrenomedullin: A novel hypotensive peptide isolated from human pheochromocytoma  
A.Reference number: JN0476; MUID:93249425; PMID:8387282  
A.Accession: JN0476  
A.Molecule type: protein  
A.Residues: 95-146 <KIT>  
A.Experimental source: pheochromocytoma  
C.Genetics:  
A.Gene: GDB:ADM  
A.Cross-references: GDB:217070; OMIM:103275  
A.Map position: 11pter-11qter  
A.Impr position: 11pter-11qter  
A.Impr: 33/2; 83/2  
C.Keywords: amidated carboxyl end; blood pressure control; hormone  
F.1-21.Domain: signal sequence #status predicted <SG>  
F.22-48/Product: proadrenomedullin #status predicted <PEU>  
F.22-41/Domain: proadrenomedullin amino-terminal 20 peptide #status predicted <PAP>  
F.95-146/Product: adrenomedullin #status experimental <MAT>  
F.147-185/Domain: carboxyl-terminal propeptide #status predicted <CTP>  
F.41/Modified site: amidated carboxyl end (Arg) (amide in mature form from following glyc  
F.110-115/Disulfide bonds: #status experimental  
F.146/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following glic  
Query Match 28.5%; Score 72.5; DB 2; Length 185;  
Best Local Similarity 38.5%; Pred. No. 0.37; Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

QY 9 GCVLGLTCQVNLSHLRILWQLMGPAGRQDSAPVDPSSPHY 47  
 109 GCRFEGTCTVOKLAHQIYQFT-DKDKDGMAPRKUSPQGY 146

RESULT 2

S41600 adrenomedullin - pig

C;Species: Sus scrofa domestica (domestic pig)  
 C;Date: 19-Mar-1997 #sequence\_revision 19-Mar-1997 #text\_change 09-Jul-2004  
 C;Accession: S41600  
 R;Kitamura, K.; Kangawa, K.; Kojima, M.; Ichiki, Y.; Matsuo, H.; Eto, T.  
 FEBS Lett. 338, 306-310, 1994  
 A;Title: Complete amino acid sequence of porcine adrenomedullin and cloning of cDNA enc  
 A;Reference number: S41600; MUID:94139945; PMID:8043068  
 A;Status: preliminary  
 A;Residues: 1-188 <KIT>  
 A;Cross-references: UNIPROT:P53366; GB:DI4875; NID:9439721; PIDN:AAA03590.1; PID:g496379

Query Match  
 Best Local Similarity 27.8%; Score 70.5; DB 2; Length 188;  
 Matches 15; Conservative 5; Mismatches 18; Indels 1; Gaps 1;

QY 9 GCVLGLTCQVNLSHLRILWQLMGPAGRQDSAPVDPSSPHY 47  
 Db 109 GCRFEGTCTVOKLAHQIYQFT-DKDKDGMAPRKUSPQGY 146

RESULT 3

JN0766 adrenomedullin precursor - rat

C;Species: Rattus norvegicus (Norway rat)  
 C;Date: 30-Sep-1993 #sequence\_revision 20-Aug-1994 #text\_change 09-Jul-2004  
 C;Accession: JN0766; PN0610  
 R;Sakata, J.; Shimokubo, T.; Kitamura, K.; Nakamura, S.; Kangawa, K.; Matsuo, H.; Eto, T.  
 Biochem. Biophys. Res. Commun. 195, 921-927, 1993  
 A;Title: Molecular cloning and biological activities of rat adrenomedullin, a hypotensi  
 A;Reference number: JN0766; MUID:93384621; PMID:7690563  
 A;Accession: JN0766  
 A;Molecule type: mRNA  
 A;Residues: 1-185 <SAK>  
 A;Cross-references: UNIPROT:P43145  
 A;Accession: PN0610  
 A;Molecule type: protein  
 A;Residues: 22-41 <SA2>  
 C;Comment: This precursor contains a unique 20-amino acid sequence designated proadren  
 C;Keywords: amidated carboxyl end  
 F;1-21/Domain: Signal sequence #status predicted <SIG>  
 F;22-185/Product: proadrenomedullin #status predicted <PEU>  
 F;22-41/Product: proadrenomedullin amino-terminal 20 peptide #status predicted <PAP>  
 F;94-143/Product: adrenomedullin #status predicted <AM1>  
 F;41/Modified Site: amidated carboxyl end (Arg) (amide in mature form from following gyl  
 F;143/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following gyl  
 Query Match  
 Best Local Similarity 35.9%; Score 69.5; DB 2; Length 185;  
 Matches 14; Conservative 7; Mismatches 17; Indels 1; Gaps 1;

RESULT 4

QY 9 GCVLGLTCQVNLSHLRILWQLMGPAGRQDSAPVDPSSPHY 47  
 Db 106 GCRFEGTCTVOKLAHQIYQFT-DKDKDGMAPRKUSPQGY 143

AC3406 1-lactate permease [imported] - *Brucella melitensis* (strain 16M)  
 C;Species: *Brucella melitensis*  
 C;Accession: 01-Feb-2002 #sequence\_revision 01-Feb-2002 #text\_change 09-Jul-2004  
 C;Accession: AC3406

QY 9 GCVLGLTCQVNLSHLRILWQLMGPAGRQDSAPVDPSSPHY 47  
 Db 106 GCRFEGTCTVOKLAHQIYQFT-DKDKDGMAPRKUSPQGY 143

RESULT 5

A38731 alpha-1A adrenergic receptor - rat

C;Species: Rattus norvegicus (Norway rat)  
 C;Date: 22-Jan-1993 #sequence\_revision 22-Jan-1993 #text\_change 09-Jul-2004  
 C;Accession: A38731; AA3280  
 R;Lomasney, J.W.; Cotecchia, S.; Lorenz, W.; Leung, W.Y.; Schwinn, D.A.; Yang-Feng, T.L.;  
 J. Biol. Chem. 266, 6365-6369, 1991  
 A;Title: Molecular cloning and expression of the cDNA for the alpha-1A-adrenergic receptor  
 A;Reference number: A38731; MUID:91177889; PMID:1706716  
 A;Accession: A38731  
 A;Molecule type: mRNA  
 A;Residues: 1-560 <LOM>  
 A;Cross-references: UNIPROT:P23944; GB:MG60654; NID:9202761; PIDN:AAA63477.1; PID:g202762  
 R;Perez, D.M.; Piscic, M.T.; Graham, R.M.  
 Mol. Pharmacol. 40, 786-883, 1991  
 A;Title: Solution-phase library screening for the identification of rare clones: isolat  
 A;Reference number: A38731  
 A;Accession: A53280  
 A;Status: preliminary; not compared with conceptual translation  
 A;Molecule type: mRNA  
 A;Residues: 1-36, 'P', 36-58, 'I', 60-202, 'I', 204-305, 'R', 307-366, 'I', 368-370, 'I', 372-559 <PI  
 A;Experimental source: hippocampus  
 A;Note: sequence extracted from NCBI backbone (NCBIP:73541)  
 C;Superfamily: vertebrate rhodopsin  
 C;Keywords: G protein-coupled receptor; glycoprotein; transmembrane protein

Query Match  
 Best Local Similarity 22.8%; Score 58; DB 2; Length 560;  
 Matches 17; Conservative 3; Mismatches 15; Indels 20; Gaps 2;

QY 4 QLRRVGVLTCQVNLSHLRILWQLMGPAGRQDSAPVDPSSPHY 45  
 Db 409 RLRL-----COCRRLWLSRPLASLDRRAFRRLPQSPHSRSPRGSSPH 456

RESULT 6

T22482 hypothetical protein F08B4.2 - *Caenorhabditis elegans*

C;Species: *Caenorhabditis elegans*  
 C;Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 09-Jul-2004  
 C;Accession: T22482  
 R;Stellyes, L.; Gattung, S.  
 A;Description: The sequence of *C. elegans* cosmid F08B4.  
 A;Reference number: 220625  
 A;Accession: T22482  
 A;Status: preliminary; translated from GB/EMBL/DDBJ  
 A;Molecule type: DNA

A;Residues: 1-154 <SPE>  
 A;Cross-references: UNIPROT:Q19194; EMBL:U52002; PIDN:AB37728.1; GSPDB:GN00022; CESP:FO  
 A;Experimental source: strain Bristol N2; clone F0B84  
 C;Genetics:  
 A;Gene: CESP:F0B84.2  
 A;Map position: 4  
 A;Introns: 25/3; 74/3; 147/3; 238/1; 290/2; 391/2; 452/3; 526/3; 670/3; 734/1; 779/3; 83  
 Query Match 22.8%; Score 58; DB 2; Length 1544;  
 Best Local Similarity 25.4%; Pred. No. 30;  
 Matches 15; Conservative 7; Mismatches 23; Indels 14; Gaps 1;  
 Oy 3 AQILRVEGVLGTCQV-----QNSHRLWQLMGPAGRQDSAPVPPSPHY 47  
 Db 1275 AVTVALGAIIGCAVCVFWSRYKTAQRNNSFSHVSYPQKGLPYHPTMNGVDPRTEDY 1333  
 RESULT 7  
 T02844  
 cdc16-related protein, L3169.1 [imported] - Leishmania major (strain Friedlin)  
 C;Species: Leishmania major  
 C;Date: 24-Mar-1999 #sequence\_revision 24-Mar-1999 #text\_change 09-Jul-2004  
 C;Accession: H8461; T02844  
 R;Myler, P.J.; Audileman, L.; devos, T.; Hixson, G.; Kiser, P.; Lenley, C.; Magness, C.;  
 proc. Natl. Acad. Sci. U.S.A. 96, 2902-2906, 1999  
 A;Title: Leishmania major Friedlin chromosome 1 has an unusual distribution of protein-c  
 A;Reference number: A81455; MUID:99178987; PMID:10077609  
 A;Accession: HB1461  
 A;Molecule Type: DNA  
 A;Status: preliminary  
 A;Residues: 1-1784 <PVL>  
 A;Cross-references: UNIPROT:Q94606; GB:AE001274; NID:g3264850; PIDN: AAC24667.1; PID:g326  
 A;Experimental source: strain M100/IL/81/Friedlin  
 C;Genetics:  
 A;Gene: L3169.1  
 A;Map position: 1  
 Query Match 22.4%; Score 57; DB 2; Length 1784;  
 Best Local Similarity 52.6%; Pred. No. 47;  
 Matches 10; Conservative 5; Mismatches 4; Indels 0; Gaps 0;  
 Oy 16 QVNLNSHLWQLMGPAGRQ 34  
 Db 321 ELQHLWHLWELGAWRQ 339

RESULT 8  
 B82662  
 ABC transporter ATP-binding protein XPL1602 [imported] - Xylella fastidiosa (strain 945c)  
 C;Species: Xylella fastidiosa  
 C;Date: 18-Aug-2000 #sequence\_revision 20-Aug-2000 #text\_change 09-Jul-2004  
 C;Accession: E82662  
 R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequer  
 Nature 406, 151-157, 2000  
 A;Title: The genome sequence of the plant pathogen Xylella fastidiosa.  
 A;Reference number: A82515; MUID:2035717; PMID:10910347  
 A;Note: for a complete list of authors see reference number A59328 below  
 A;Accession: E82662  
 A;Status: preliminary  
 A;Molecule Type: DNA  
 A;Residues: 1-283 <SIM>  
 A;Cross-references: UNIPROT:Q9PBD2; GB:AE003987; GB:AE003849; NID:g910634; PIDN:AAF8441  
 A;Experimental source: strain 945c  
 R;Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Aencio, M.; Alvarenga, R.; A  
 Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.R.; Carrara, D.M.; Carrer, H  
 as-Neto, E.; Doerner, C.; El-Dorry, H.; Facincani, A.P.; Ferreira, A.J.S.  
 submitted to Genbank, June 2000  
 A;Authors: Ferreira, V.C.A.; Ferro, J.A.; Praga, J.S.; Franca, S.C.; Franco, M.C.; Froeh  
 J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigr  
 chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Mariano, C.L.; Marques, M.V.; Martins, E  
 A;Authors: Martin, E.M.F.; Matsumura, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.;  
 P.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, R.C.; Palomari, D.A.  
 Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawasaki

A;Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silveir  
 M.; Tsuhako, M.H.; Valiada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Za  
 A;Reference number: A59328  
 A;Contents: annotation  
 C;Genetics:  
 A;Gene: XFL002  
 A;Map position: 1  
 Query Match 21.3%; Score 54; DB 2; Length 283;  
 Best Local Similarity 34.1%; Pred. No. 17;  
 Matches 15; Conservative 7; Mismatches 18; Indels 4; Gaps 1;  
 Oy 1 TQQLRVEGVLGTCQV-----QNSHRLWQLMGPAGRQDSAPVPPSPHY 47  
 Db 195 TDVMPIRDGHVLNTDVNLAKRYTQIQLVDTDKUDSARALGPID 238  
 RESULT 9  
 T26050  
 hypothetical protein W01C9.3 - Caenorhabditis elegans  
 C;Species: Caenorhabditis elegans  
 C;Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 09-Jul-2004  
 C;Accession: T26050  
 R;Sims, M.  
 submitted to the EMBL Data Library, June 1995  
 A;Reference number: Z20143  
 A;Accession: T26050  
 A;Status: preliminary; translated from GB/EMBL/DDBJ  
 A;Molecule Type: DNA  
 A;Residues: 1-792 <WIL>  
 A;Cross-references: UNIPROT:Q23115; EMBL:Z49959; PIDN:CAA90267.1; GSPDB:GN00020; CESP:W0  
 C;Genetics:  
 A;Gene: CESP:W01C9.3  
 A;Map position: 2  
 A;Introns: 15/1; 40/1; 66/3; 101/3; 182/2; 270/3; 338/3; 366/1; 597/3; 613/2; 646/2; 684  
 Query Match 21.3%; Score 54; DB 2; Length 792;  
 Best Local Similarity 39.5%; Pred. No. 50;  
 Matches 15; Conservative 3; Mismatches 18; Indels 2; Gaps 1;  
 Oy 9 GCWLGTCQVQNLSHRLWQLMGPAG--RODSAPVDPSSP 44  
 Do 736 GLALENRDADGFSHRLQQLMGTSSNVYRDPVNPYV 773  
 RESULT 10  
 A43708  
 gamma-interferon-inducible protein IP-30 precursor - human  
 C;Species: Homo sapiens (man)  
 C;Date: 03-Mar-1993 #sequence\_revision 03-Mar-1993 #text\_change 09-Jul-2004  
 C;Accession: A43708  
 R;Luster, A.D.; Weinschank, R.L.; Feinman, R.; Ravetch, J.V.  
 J. Biol. Chem. 263, 12036-12042, 1988  
 A;Title: Molecular and biochemical characterization of a novel gamma-interferon-inducible  
 A;Reference number: A43708; MUID:88298888; PMID:3136170  
 A;Accession: A43708  
 A;Status: preliminary  
 A;Molecule Type: mRNA  
 A;Residues: 1-303 <LUS>  
 A;Cross-references: UNIPROT:PI3284; EMBL:J03909; NID:g186264; PIDN:AAA36105.1; PID:g3070  
 Query Match 21.1%; Score 53.5%; DB 2; Length 303;  
 Best Local Similarity 41.4%; Pred. No. 21;  
 Matches 12; Conservative 4; Mismatches 11; Indels 3; Gaps 1;  
 Oy 10 CVLGTCQVQNLSHRLWQLMGPAGRQDSAPVPPSPHY 38  
 Do 209 CSPATARVCALGHRQWELL--GRSDPAP 234  
 RESULT 11  
 A27845  
 carboxylesterase (EC 3.1.1.1) precursor - Streptomyces scabies

A;Reference number: AB1807; MUID:2159285; PMID:11759840  
 A;Accession: AE2414  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-192 <KUR>  
 A;Cross-references: UNIPROT:Q8YMR4; GB:BA000019; PIDN:BAB76568.1; PID:gi17134006; GSPDB:GN  
 C;Genetics:  
 A;Gene: al14869  
 C;Superfamily: Synechocystis hypothetical protein sir1160  
  
 Query Match      20.9%;    Score 53;    DB 2;    Length 192;  
 Best Local Similarity      40.0%;    Pred. No. 15;  
 Matches      8;    Conservative      6;    Mismatches      6;    Indels      0;    Gaps      0;  
  
 Qy      27 LMKPAGPROGDSAPVDPSSPHS 46  
 Db      23 LMKPAGQNPQDPNNSPN 42  
  
 RESULT 14  
 H95954  
 A;probable Sir2-like transcription silencer protein [imported] - Sinorhizobium meliloti (strain meliloti) C;Species: Sinorhizobium meliloti  
 C;Accession: H95954  
 C;Date: 24-Aug-2001 #sequence\_revision 24-Aug-2001 #text\_change 09-Jul-2004  
 R;Finan, T.M.; Weidner, S.; Wong, K.; Buhmester, J.; Chain, P.; Vorholter, F.J.; Hernandez, Proc. Natl. Acad. Sci. U.S.A. 98, 9893-9894, 2001  
 A;Title: The complete sequence of the 1,683-kb pSYMB megaplasmid from the N2-fixing endosymbiont of *Acacia*. H95954  
 A;Accession: H95954  
 A;Status: preliminary  
 A;Molecule type: DNA  
 A;Residues: 1-272 <KUR>  
 A;Cross-references: UNIPROT:PW6452; GB:AU591985; PIDN:CAC49304.1; PID:gi15140790; GSPDB:GN  
 A;Experimental source: strain 1021, megaplasmid pSYMB  
 R;Galibert, F.; Finan, T.M.; Long, S.R.; Puhler, A.; Abola, P.; Ampe, F.; Barloy-Hubler, E.; Béla, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fisher, R.F.; L.; Hyman, R.W.; Jones, T.  
 Science 293, 668-672, 2001  
 A;Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, C.; Rebault, P.; Vandembroucq, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.; Yeh, K.C.; Titre: The composite genome of the legume symbiont *Sinorhizobium meliloti*.  
 A;Title: The composite genome of the legume symbiont *Sinorhizobium meliloti*.  
 A;Reference number: A96039; MUID:21368234; PMID:11474104  
 A;Contents: annotation  
 A;Genetics:  
 C;Superfamily: annotation  
 A;Gene: SM02132B  
 A;Molecule type: DNA  
 A;Residues: 1-272 <KUR>  
 C;Superfamily: uncharacterized conserved protein with Sir2 domain  
  
 Query Match      20.9%;    Score 53;    DB 2;    Length 272;  
 Best Local Similarity      26.1%;    Pred. No. 22;  
 Matches      12;    Conservative      10;    Mismatches      22;    Indels      2;    Gaps      1;  
  
 Qy      2 QDQIIRIVCQVIGCQVQVNISHRIWQLMKPGDSDAPVDPSSPHSY 47  
 Db      2 QDQIIRIVCQVIGCQVQVNISHRIWQLMKPGDSDAPVDPSSPHSY 47  
 187 EATVLFIGYSMSDLNIRLILHRISWRRSRSGHEKDRP--PSYVFMY 230  
  
 RESULT 15  
 E97187  
 DTDP-D-glucose 4,6-dehydratase [imported] - Clostridium acetobutylicum  
 C;Species: Clostridium acetobutylicum  
 C;Accession: E97187  
 C;Date: 14-Sep-2001 #sequence\_revision 14-Sep-2001 #text\_change 09-Jul-2004  
 R;Nollig, J.; Bretton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee, J.; Daly, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R.; Bacteriol. 183, 4223-4239, 2001  
 A;Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium Clostridium acetobutylicum. E97187  
 A;Accession: E97187  
 A;Status: preliminary  
 A;Molecule type: DNA

A:Residues: 1-351 <KUR>  
A:Cross-references: UNIPROT:Q9YGN4; GB:AB001437; PIDN:AAK80288.1; PID:915025341; GSPDB:1  
A:Experimental source: Clostridium acetobutylicum ATCC824  
C:Genetics:  
A:Gene: CAC2332  
C:Superfamily: Escherichia coli UDPglucose 4-epimerase; UDPglucose 4-epimerase homology

Search completed: May 4, 2005, 18:14:56  
Job time : 41 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 4, 2005, 18:06:10 ; Search time 41 Seconds  
(without alignments)  
85.573 Million cell updates/sec

Title: US-10-723-368-5  
perfect score: 254  
Sequence: 1 TOAQLIRVGCVLGLTCQVNL.....MGPAQRQDSAPVDPSSPHSY 47

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Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Listing first 45 summaries

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3: /cgn2\_6/ptodata/1/1aa/6A\_COMBO.pep: \*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMBO.pep: \*  
5: /cgn2\_6/ptodata/1/1aa/PCTRUS\_COMBO.pep: \*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

RESULT 1  
US-09-280-501-6  
; Sequence 6, Application US/09280501  
; Patent No. 6440421  
; GENERAL INFORMATION:  
; APPLICANT: Cooper, Garth James Smith  
; APPLICANT: Reid, Ian Reginald  
; APPLICANT: Cornish, Jillian  
; TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS  
; FILE REFERENCE: 08987-005001  
; CURRENT APPLICATION NUMBER: US/09/280,501  
; CURRENT FILING DATE: 1999-02-30  
; PRIOR APPLICATION NUMBER: 08/634,562  
; PRIOR FILING DATE: 1996-04-18  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 38  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-280-501-6

Query Match 38.5%; Score 72.5; DB 4; Length 38;  
Best Local Similarity 38.5%; Pred. No. 0.0098; Mismatches 17; Indels 1; Gaps 1;

Matches 15; Conservative 6; Mismatches 17; Indels 1; Gaps 1;

QY 9 GCVLGLTCQVNLSHRLWQLMGPAQRQDSAPVDPSSPHSY 47  
Dy ||||| ||| : : : || : ||| ||| ||| 38

1 GCRIGTCVYKLAHQIYOPT-DKDKDNVAPRSKTSQSY

RESULT 2  
US-09-280-501-11  
; Sequence 11, Application US/09280501  
; Patent No. 6440421  
; GENERAL INFORMATION:  
; APPLICANT: Cooper, Garth James Smith  
; APPLICANT: Reid, Ian Reginald  
; APPLICANT: Cornish, Jillian  
; TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS  
; FILE REFERENCE: 08987-005001  
; CURRENT APPLICATION NUMBER: US/09/280,501  
; CURRENT FILING DATE: 1999-02-30  
; PRIOR APPLICATION NUMBER: 08/634,562  
; PRIOR FILING DATE: 1996-04-18  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 11

LENGTH: 40  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-2800-501-11

Query Match 28.5%; Score 72.5; DB 4; Length 40;  
 Best Local Similarity 38.5%; Pred. No. 0 014; Mismatches 15; Conservative 6; Indels 1; Gaps 1;  
 Matches 15; Conservation: 1;

Qy 9 GCVLGLCQVQVNLSHRILWLMGPGAGRQSAPVDPSSPHSY 47  
 Db 3 GCRFGCTVQKLAHQIYQFT-DKDKDNVAPRSKISPGY 40

RESULT 3  
 US-09-070-504-14  
 Sequence 14, Application US/09070504  
 Patent No. 6268474  
 GENERAL INFORMATION:  
 COMPUTER: IBM PC compatible  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/070, 504  
 FILING DATE: 30-APR-1998  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McCormack, Myra H  
 REGISTRATION NUMBER: 35, 602  
 REFERENCE/DOCKET NUMBER: 180-00020101  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 612/2305-1228  
 TELEFAX: 612/2305-1228  
 INFORMATION FOR SEQ ID NO: 14:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 52 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-09-070-504-14

Query Match 28.5%; Score 72.5; DB 3; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0 014; Mismatches 15; Conservative 6; Indels 1; Gaps 1;  
 Matches 15; Conservation: 1;

Qy 9 GCVLGLCQVQVNLSHRILWLMGPGAGRQSAPVDPSSPHSY 47  
 Db 15 GCRFGCTVQKLAHQIYQFT-DKDKDNVAPRSKISPGY 52

RESULT 4  
 US-09-813-345C-14  
 Sequence 14, Application US/09813345C  
 Patent No. 6756205  
 GENERAL INFORMATION:  
 APPLICANT: CREIGHTON UNIVERSITY  
 APPLICANT: SMITH, Derek D.  
 APPLICANT: Saha, Shankar  
 APPLICANT: Abel, Peter W.  
 TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF USE  
 TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF USE  
 NUMBER OF SEQUENCES: 23  
 CORRESPONDENCE ADDRESS: Muetting, Raasch & Gebhardt, P.A.  
 ADDRESSEE: Muetting, Raasch & Gebhardt, P.A.  
 STREET: 119 No. 6268474th Fourth Street  
 CITY: Minneapolis  
 STATE: MN  
 COUNTRY: USA  
 ZIP: 55401  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/070, 504  
 FILING DATE: 30-APR-1998  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: McCormack, Myra H  
 REGISTRATION NUMBER: 35, 602  
 REFERENCE/DOCKET NUMBER: 180-00020101  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 612/2305-1228  
 TELEFAX: 612/2305-1228  
 INFORMATION FOR SEQ ID NO: 14:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 52 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 US-09-070-504-14

Query Match 28.5%; Score 72.5; DB 4; Length 52;  
 Best Local Similarity 38.5%; Pred. No. 0 014; Mismatches 15; Conservative 6; Indels 1; Gaps 1;  
 Matches 15; Conservation: 1;

Qy 9 GCVLGLCQVQVNLSHRILWLMGPGAGRQSAPVDPSSPHSY 47  
 Db 15 GCRFGCTVQKLAHQIYQFT-DKDKDNVAPRSKISPGY 52

RESULT 5  
 US-08-233-389C-1  
 Sequence 1, Application US/08233389C  
 Patent No. 5639855  
 GENERAL INFORMATION:  
 COMPUTER: KITAMURA, Kazuo  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: MATSUO, Hisayuki  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/233, 389C  
 FILING DATE: 26-APR-1994  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: ETO, Taneo  
 REGISTRATION NUMBER: 35, 602  
 REFERENCE/DOCKET NUMBER: 180-00020101  
 TITLE OF INVENTION: ADRENOMEDULLIN  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: c/o FISH & NEAVE  
 STREET: 1251 Avenue of the Americas  
 CITY: New York  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10020  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/233, 389C  
 FILING DATE: 26-APR-1994  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: HALEY JR., James F.  
 REGISTRATION NUMBER: 27, 794  
 REFERENCE/DOCKET NUMBER: SHGN-5  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 596-9000  
 TELEFAX: (212) 596-9090  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 185 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-233-389C-1

Query Match 28.5%; Score 72.5; DB 1; Length 185;  
 Best Local Similarity 38.5%; Pred. No. 0 056; Mismatches 15; Conservative 6; Indels 1; Gaps 1;  
 Matches 15; Conservation: 1;

Qy 9 GCVLGLCQVQVNLSHRILWLMGPGAGRQSAPVDPSSPHSY 47  
 Db 15 GCRFGCTVQKLAHQIYQFT-DKDKDNVAPRSKISPGY 52

QY 9 GCVUGTCQVQLSLRHLWQLMGPAGRQDSAPVDPSSPHSY 47  
 109 GCRFGTCTVQKLAHQIYQFT-DKDKDNVAPRSKISPGY 146

RESULT 6  
 US-08-801-863-1  
 Sequence 1, Application US/08801863  
 Patent No. 5830703  
 GENERAL INFORMATION:  
 APPLICANT: KITAMURA, Kazuo  
 APPLICANT: KANGAWA, Kenji  
 APPLICANT: MATSUO, Hisayuki  
 APPLICANT: ETO, Taneao  
 TITLE OF INVENTION: ADRENOMEDULLIN  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESS:  
 ADDRESSE: c/o FISH & NEAVE  
 STREET: 1251 Avenue of the Americas  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10020

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/486,596A  
 FILING DATE: JUNE 7, 1995  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: HALEY JR., James F.  
 REGISTRATION NUMBER: 27,794  
 REFERENCE/DOCKET NUMBER: SHGN-5 DIV1  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 596-9000  
 TELEFAX: (212) 596-9090  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 185 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-486-596A-1

Query Match 28.5%; Score 72.5; DB 2; Length 185;  
 Best Local Similarity 38.5%; Pred. No. 0.056; 1;  
 Matches 15; Conservative 6; Mismatches 17; Indels 1;  
 Gaps 1;

QY 9 GCVUGTCQVQLSLRHLWQLMGPAGRQDSAPVDPSSPHSY 47  
 109 GCRFGTCTVQKLAHQIYQFT-DKDKDNVAPRSKISPGY 146

RESULT 8  
 US-09-004-713-1  
 Sequence 1, Application US/09004713  
 Patent No. 5910416  
 GENERAL INFORMATION:  
 APPLICANT: KITAMURA, Kazuo  
 APPLICANT: KANGAWA, Kenji  
 APPLICANT: MATSUO, Hisayuki  
 APPLICANT: ETO, Taneao  
 TITLE OF INVENTION: ADRENOMEDULLIN  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESS:  
 ADDRESSE: c/o FISH & NEAVE  
 STREET: 1251 Avenue of the Americas  
 STATE: NY  
 COUNTRY: USA  
 ZIP: 10020

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/004,713  
 FILING DATE: JANUARY 7, 1998  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: HALEY JR., James F.  
 REGISTRATION NUMBER: 27,794  
 REFERENCE/DOCKET NUMBER: SHGN-5 DIV2 CON  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 596-9000  
 TELEFAX: (212) 596-9090  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 185 amino acids  
 TYPE: amino acid

RESULT 7  
 US-08-486-596A-1  
 Sequence 1, Application US/08486596A  
 Patent No. 5830703  
 GENERAL INFORMATION:  
 APPLICANT: KITAMURA, Kazuo  
 APPLICANT: KANGAWA, Kenji  
 APPLICANT: MATSUO, Hisayuki  
 APPLICANT: ETO, Taneao  
 TITLE OF INVENTION: ADRENOMEDULLIN  
 NUMBER OF SEQUENCES: 10  
 CORRESPONDENCE ADDRESS:  
 ADDRESSE: c/o FISH & NEAVE  
 STREET: 1251 Avenue of the Americas  
 CITY: New York  
 STATE: NY

; MOLECULE TYPE: protein

; US-09-004-713-1

; Query Match

Best Local Similarity 28.5%; Score 72.5; DB 2; Length 185; Matches 15; Conservative 5%; Pred. No. 0.056; Mismatches 6; Indels 17; Gaps 1; Gaps 1;

QY 9 GCGVIGTCQVNLNSRLWQLMGAGRDSAVDPPSSPHSY 47  
Db 109 GCGRGCTCIVOKLAHQIYQFT-DKDKDGVAPRSKISPOQY 146

RESULT 9

; US-08-233-389C-3

; Sequence 3, Application US/08233389C

; Patent No. 5639855

; GENERAL INFORMATION:

; APPLICANT: KITAMURA, Kazuo

; APPLICANT: KANGAWA, Kenji

; APPLICANT: MATSUO, Hisayuki

; TITLE OF INVENTION: ADRENOMEDULLIN

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESS: C/O FISH & NEAVE

; STREET: 1251 Avenue of the Americas

; CITY: New York

; STATE: NY

; COUNTRY: USA

; ZIP: 10020

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08-801-863

; FILING DATE: CONCURRENTLY HEREWITH

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: HALEY JR., James F.

; REGISTRATION NUMBER: 27,794

; REFERENCE NUMBER: 27,794

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 596-9000

; TELEFAX: (212) 596-9090

; INFORMATION FOR SEQ ID NO: 3:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 188 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; US-08-233-389C-3

; Sequence 3, Application US/08233389C

; Patent No. 5639855

; GENERAL INFORMATION:

; APPLICANT: KITAMURA, Kazuo

; APPLICANT: KANGAWA, Kenji

; APPLICANT: MATSUO, Hisayuki

; TITLE OF INVENTION: ADRENOMEDULLIN

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESS: C/O FISH & NEAVE

; STREET: 1251 Avenue of the Americas

; CITY: New York

; STATE: NY

; COUNTRY: USA

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08-486-5961-3

; FILING DATE: JUNE 7, 1995

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: HALEY JR., James F.

; REGISTRATION NUMBER: 27,794

; REFERENCE/DOCKET NUMBER: SHGN-5 DIV1

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 596-9090

TELEFAX: (212) 596-9090

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 188 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-486-536A-3

Query Match

Best Local Similarity 27.8%; Score 70.5; DB 2; Length 188; Matches 15; Conservative 5; Mismatches 18; Indels 1; Gaps 1;

QY 9 GCVLGLTCQVNLSHLWQLMGPGAGRQDSAPVDPSSPHY 47

Db 109 GCGRGTCCTVQKLAHQIYFT-DKDKGVAPRSKISPGY 145

RESULT 12

US-09-004-713-3

GENERAL INFORMATION:

APPLICANT: KITAMURA, Kazuo

APPLICANT: KANGAWA, Kenji

APPLICANT: MATSUI, Hisayuki

APPLICANT: ETO, Tanehao

TITLE OF INVENTION: ADRENOMEDULLIN

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: c/o FISH &amp; NEAVE

STREET: 1251 Avenue of the Americas

CITY: New York

STATE: NY

COUNTRY: USA

ZIP: 10020

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

PATENT NUMBER: US/09/070,504

FILING DATE: 30-APR-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: McCormack, Myra H

REGISTRATION NUMBER: 36,602

REFERENCE/DOCKET NUMBER: 180.00020101

TELECOMMUNICATION INFORMATION:

TELEPHONE: 612/305-1220

TELEFAX: 612/305-1228

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 50 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-09-070-504-15

Query Match

Best Local Similarity 27.4%; Score 69.5; DB 3; Length 50;

Matches 14; Conservative 7; Mismatches 17; Indels 1; Gaps 1;

QY 9 GCVLGLTCQVNLSHLWQLMGPGAGRQDSAPVDPSSPHY 47

Db 13 GCGRGTCCTVQKLAHQIYFT-DKDKGVAPRSKISPGY 50

RESULT 14

US-09-813-345C-15

GENERAL INFORMATION:

APPLICANT: BRIGHTON UNIVERSITY

APPLICANT: SMITH, Derek D.

APPLICANT: SARA, Shankar

APPLICANT: ABEL, Peter W.

TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF

FILE REFERENCE: 180\_00020102

CURRENT APPLICATION NUMBER: US/09/813,345C

CURRENT FILING DATE: 2001-03-20

PRIOR APPLICATION NUMBER: 09/1070,504

PRIOR FILING DATE: 1998-04-30

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn version 3.2

SEQ ID NO: 15

LENGTH: 50

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:

RBSLT 13

US-09-070-504-15

; OTHER INFORMATION: Artificially Synthesized Peptide  
; US-09-813-345C-15

Query Match 27.4%; Score 69.5; DB 4; Length 50;  
Best Local Similarity 35.9%; Pred. No. 0 033; 7; Mismatches 17; Indels 1; Gaps 1;  
Matches 14; Conservative 6; Mismatches 15; Indels 1; Gaps 1;  
Qy 9 GCVLGLCQVNISHLWLMGPGAGRDPSAPVDPSSPHY 47  
Db 13 GCRFGICVQKLAHQIVQFT DDKDKDAPRKISPGY 50

RESULT 15

US-09-280-501-8  
; Sequence 8, Application US/09280501  
; Patent No. 6440421  
; GENERAL INFORMATION:  
; APPLICANT: Cooper, Garth James Smith  
; APPLICANT: Reid, Ian Reginald  
; APPLICANT: Cornish, Jillian  
; TITLE OF INVENTION: TRAITEMENT OF BONE DISORDERS WITH  
; TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS  
; FILE REFERENCE: 05987-005001  
; CURRENT APPLICATION NUMBER: US/09/280-501  
; CURRENT FILING DATE: 1999-03-30  
; PRIOR APPLICATION NUMBER: 08/634,562  
; PRIOR FILING DATE: 1996-04-18  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 40  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-280-501-8

Query Match 25.8%; Score 65.5; DB 4; Length 40;  
Best Local Similarity 38.9%; Pred. No. 0 089; 1; Mismatches 15; Indels 1; Gaps 1;  
Matches 14; Conservative 6; Mismatches 15; Indels 1; Gaps 1;

Qy 9 GCVLGLCQVNISHLWLMGPGAGRDPSAPVDPSSPHY 44  
Db 5 GCRFGICVQKLAHQIVQFT DDKDKDAPRKISPGY 39

Search completed: May 4, 2005, 18:15:51  
Job time : 50 secs